



**The MIT Press** Spring 2021

# Dear Friends and Readers,

*Books are carriers of civilization. Without books, history is silent, literature dumb, science crippled, thought and speculation at a standstill. They are engines of change, windows to the world, “lighthouses” (as a poet said) “erected in the sea of time.”*

—Barbara W. Tuchman, *American historian*

University presses are critical to the academy’s core purpose to create and share knowledge. In these extraordinary times, scholars and scientists are racing to overcome a pandemic, combat climate change, and protect civil liberties even as they are forced to engage in escalating information warfare. With expanding misinformation and shrinking public trust in news media, in science and academia, and in expertise more broadly, it falls to universities and mission-driven publishers to uphold sense-making and the spreading of facts—to share and translate credible, research-based information in ways that maximize its impact on decisions that will shape the future of humanity. University presses have a central role to play in this cause, and the MIT Press continues to be a guiding light. As Director, I am reminded daily of the power of books for positive change—to create more beauty, knowing, understanding, justice, and human connection in our vast and complex world. All of us at the MIT Press feel a profound responsibility to use our privileged perch for good wherever we can.



**Amy Brand**

Our Spring 2021 titles reflect our commitment to engage with defining issues of our times across science, design, technology, and the arts. Our lead title, Arup K. Chakraborty and Andrey S. Shaw’s *Viruses, Pandemics, and Immunity*, lucidly details how viruses emerge to cause pandemics, how our immune system combats them, and how diagnostic tests, vaccines, and antiviral therapies work; *Women and Leadership: Real Lives, Real Lessons*, by Julia Gillard and Ngozi Okonjo-Iweala, serves as a powerful call to action for achieving gender equality in leadership; and *You Are Here: A Field Guide for Navigating Polarized Speech, Conspiracy Theories, and Our Polluted Media Landscape*, by Whitney Phillips and Ryan M. Milner, traces how our poisoned media landscape came into being and offers crucial strategies for how to make things better.

You will also find here books that embody the spirit of playfulness and imagination that the MIT Press is so well known for, with titles like *The Curie Society*, created by Heather Einhorn and Adam Staffaroni, written by Janet Harvey, illustrated by Sonia Liao, and edited by Joan Hilty, a graphic novel about a covert team of young women—members of the Curie society, an elite organization dedicated to women in STEM—who undertake high-stakes missions to save the world; *Make Shift: Dispatches from the Post-Pandemic Future*, edited by Gideon Lichfield, a collection of science fiction stories of pandemic-inspired ingenuity, grit, and determination; and *The Beauty of Chemistry: Art, Wonder, and Science* by Philip Ball, images and text that capture the astonishing beauty of the chemical processes that create snowflakes, bubbles, flames, and other wonders of nature.

Read, enjoy, think deeply, and be well,  
Amy Brand

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The MIT Press gratefully acknowledges Books On Books ([www.books-on-books.com](http://www.books-on-books.com)) for sponsoring the planting of a tree through World Land Trust ([www.worldlandtrust.org](http://www.worldlandtrust.org)) in honor of each new book in the Spring 2021 catalog.

Front Cover:  
Color change of a magenta carnation  
flower in a sodium hydroxide solution.  
Photograph by Wenting Zhu and Yan  
Liang. From *The Beauty of Chemistry*.

# Viruses, Pandemics, and Immunity

**Arup K. Chakraborty and Andrey S. Shaw**

illustrated by Philip J. S. Stork

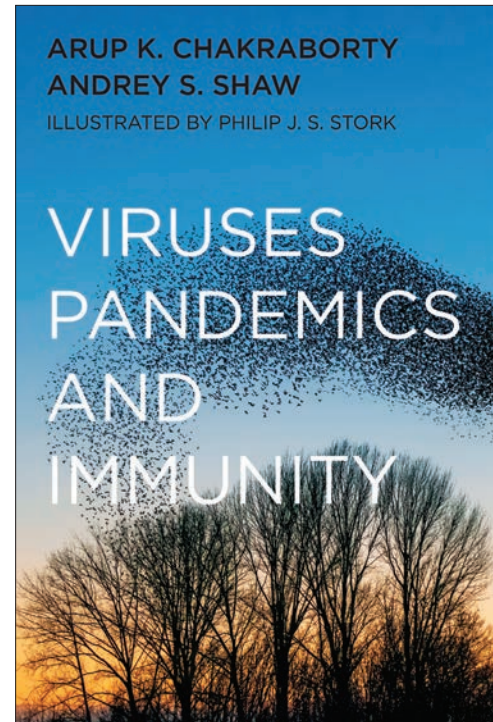
Throughout history, humans have contended with pandemics. History is replete with references to plagues, pestilence, and contagion, but the devastation wrought by pandemics had been largely forgotten by the twenty-first century. Now, the enormous human and economic toll of the rapidly spreading COVID-19 disease offers a vivid reminder that infectious disease pandemics are one of the greatest existential threats to humanity. This book provides an accessible explanation of how viruses emerge to cause pandemics, how our immune system combats them, and how diagnostic tests, vaccines, and antiviral therapies work—concepts that provide the foundation for our public health policies.

The authors, both experts in immunology, interweave explanations of scientific principles and ongoing efforts to combat COVID-19 with stories of the people behind the science. They recount the eradication of smallpox—the greatest accomplishment of vaccines and public health; discuss microbial pathogens; and describe what we know about modern pandemics, including how they spread, how they can be contained, and how they can be treated. They do not offer prescriptions for what to do, but equip readers to be informed participants in debates about how to create a more pandemic-resilient world. We do not have to repeat the mistakes made with COVID-19.

**Arup K. Chakraborty** is Robert T. Haslam Professor of Chemical Engineering and Professor of Physics and Chemistry at MIT, where he also served as the Founding Director of the Institute for Medical Engineering and Science. He is a founding member of the Ragon Institute. **Andrey S. Shaw**, an immunologist, is Staff Scientist in Immunology and Oncology at Genentech and holds adjunct professorships at Washington University in St. Louis and at the University of California, San Francisco. Illustrator **Philip J. S. Stork**, a cellular and molecular biologist, is Senior Scientist at the Vollum Institute, Oregon Health and Science University, Portland, Oregon.

“This remarkable book will take the reader on a fascinating journey—how scientists have developed a deep understanding of our immune system, how this system fights viruses, and how vaccines and antiviral therapies work. This human story addresses the many questions that people worldwide are grappling with during the current global pandemic.”

—**Arun Majumdar, Stanford University and Founding Director of ARPA-E**

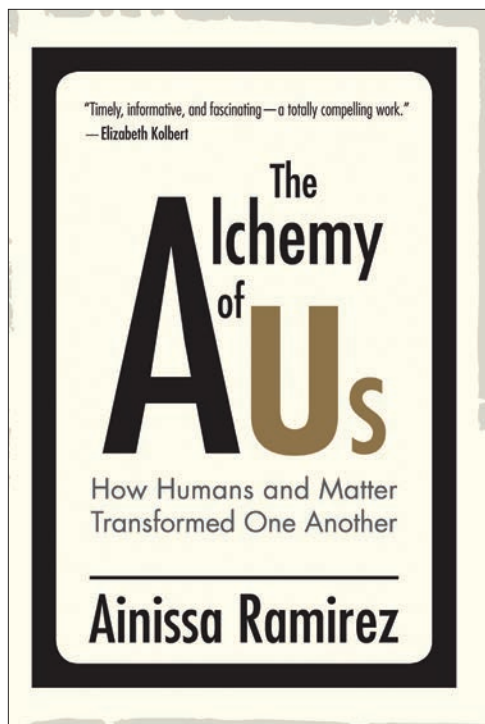


**How viruses emerge to cause pandemics, how our immune system combats them, and how diagnostic tests, vaccines, and antiviral therapies work.**

February  
5 3/8 x 8, 208 pp.  
38 illus.

**US \$19.95T/\$25.95 CAN paper**  
978-0-262-54238-8





In the bestselling tradition of *Stuff Matters*: An engaging look at materials, the innovations they made possible, and how these technologies changed us.

April  
6 x 9, 328 pp.  
102 illus.

US \$17.95T/\$23.95 CAN paper  
978-0-262-54226-5

cloth  
978-0-262-04380-9

## The Alchemy of Us

How Humans and Matter Transformed One Another

Ainissa Ramirez

In *The Alchemy of Us*, scientist and science writer Ainissa Ramirez examines eight inventions—clocks, steel rails, copper communication cables, photographic film, light bulbs, hard disks, scientific labware, and silicon chips—to reveal how they shaped the human experience. Ramirez tells the fascinating and inspiring stories of the woman who sold time, the inventor who inspired Edison, and the hotheaded undertaker whose invention pointed the way to the computer. She describes how our pursuit of precision in timepieces changed how we sleep; how the necessary brevity of the telegram influenced Hemingway’s writing style;



Ainissa Ramirez  
Photo by Bruce Fizzell.

and how a young chemist exposed the use of Polaroid’s cameras to create passbooks to track Black citizens in apartheid South Africa.

Filling in the gaps left by other books about technology, Ramirez showcases little-known inventors—particularly people of color and women—who had a significant impact but whose accomplishments have been hidden by mythmaking, bias, and convention. Doing so, she shows us the power of telling inclusive stories about technology.

**Ainissa Ramirez** is a materials scientist and sought-after public speaker and science communicator. A Brown and Stanford graduate, she has worked as a research scientist at Bell Labs and held academic positions at Yale University and MIT. She has written for *Time*, *Scientific American*, the *American Scientist*, and *Forbes*, and makes regular appearances on PBS’s *SciTech Now*.

“We live in a world so dominated by our own inventions that, as Ainissa Ramirez observes, we’ve reinvented ourselves to accommodate them. *The Alchemy of Us* is at once timely, informative, and fascinating—a totally compelling work.”

—Elizabeth Kolbert, Pulitzer Prize–winning author of *The Sixth Extinction*

“Ramirez’s ingenious survey illuminates the effect of science in a manner accessible to a wide readership.” —*Publishers Weekly*

## Women and Leadership

Real Lives, Real Lessons

**Julia Gillard and Ngozi Okonjo-Iweala**

Women make up fewer than ten percent of national leaders worldwide, and behind this eye-opening statistic lies a pattern of unequal access to power. Through conversations with some of the world's most powerful and interesting women—including Jacinda Ardern, Hillary Rodham Clinton, Christine Lagarde, Michelle Bachelet, and Theresa May—*Women and Leadership* explores gender bias and asks why there aren't more women in leadership roles.

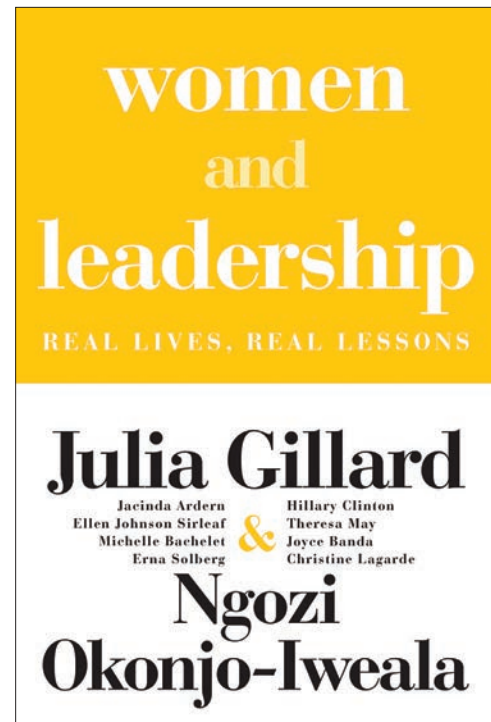
Speaking honestly and freely, these women talk about having their ideas stolen by male colleagues, what it's like to be called fat or a slut in the media, and what things they wish they had done differently. The stories they tell reveal vividly how gender and sexism affect perceptions of women as leaders. Using current research as a starting point, Julia Gillard and Ngozi Okonjo-Iweala—both political leaders in their own countries—analyze the lived experiences of these women leaders. The result is a rare insight into life as a leader and a powerful call to arms for women everywhere.

**Julia Gillard** was the 27th Prime Minister of Australia, serving from 2010 to 2013.

**Ngozi Okonjo-Iweala** was Nigeria's Minister of Finance from 2003 to 2006 and from 2011 to 2015, and Foreign Minister in 2006. She was Managing Director of the World Bank from 2007 to 2011, overseeing South Asia, Europe, Central Asia, and Africa, and is currently Board Chair of Gavi, the Vaccine Alliance, and Chair of the African Risk Capacity (ARC). She is the author of *Reforming the Unreformable* and *Fighting Corruption Is Dangerous* (both published by the MIT Press).

"*Women and Leadership* is a powerful reminder that there is no limit to what women can accomplish when we have the chance. Written by two celebrated, trailblazing leaders, it is a deeply personal portrait of the obstacles women in politics have overcome and the barriers we still face. Every page of this book is brimming with candor, wisdom, and humor—leaving the reader rightfully convinced that while women still have to try a little harder and fight a little longer, sooner or later we will get the job done."

—**Madeleine K. Albright, the first woman to serve as U.S. Secretary of State**



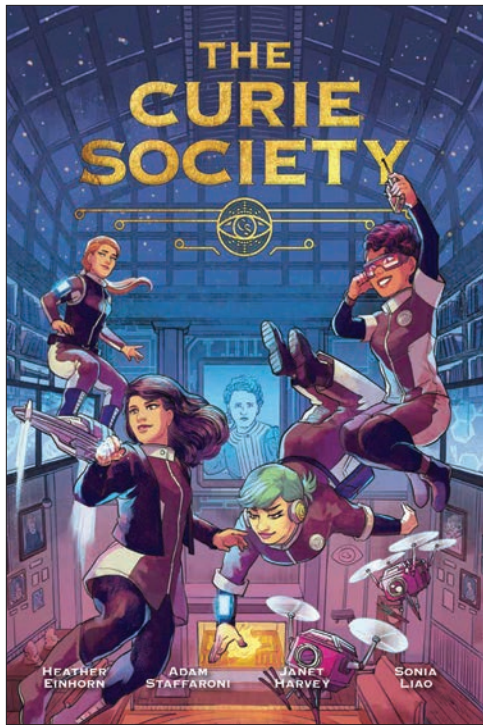
**A powerful call to action  
for achieving equality  
in leadership.**

February  
6 x 9, 336 pp.

**US \$29.95T/\$39.95 CAN cloth**  
978-0-262-04574-2

**For sale in US, Canada, and the  
Philippines only**

graphic novel



**A covert team of young women—members of the Curie society, an elite organization dedicated to women in STEM—undertakes high-stakes missions to save the world.**

April  
6 1/2 x 9 5/16, 168 pp.  
200 color illus.  
**US \$18.95T/\$24.95 CAN paper**  
978-0-262-53994-4

## The Curie Society

created by Heather Einhorn and Adam Staffaroni

writer: Janet Harvey

artist: Sonia Liao

editor: Joan Hilty

An action-adventure original graphic novel, *The Curie Society* follows a team of young women recruited by an elite secret society—originally founded by Marie Curie—with the mission of supporting the most brilliant female scientists in the world. The heroines of the Curie Society use their smarts, gumption, and cutting-edge technology to protect the world from rogue scientists with nefarious plans. Readers can follow recruits Simone, Taj, and Maya as they decipher secret codes, clone extinct animals, develop autonomous robots, and go on high-stakes missions.

*The Curie Society* introduces an entertaining, empowering media universe for fans hungry to read about brilliant, analytical young women as scientific heroes. Stay tuned for more Curie Society missions featuring our heroes saving the world through their STEM skills and teamwork.

Creators **Heather Einhorn** and **Adam Staffaroni** also created the hit teen scripted podcast *Lethal Lit: A Tig Torres Mystery* (a *New York Times* Great Podcast of 2018). Comic book writer **Janet Harvey**'s credits include the graphic novel *Angel City: Town without Pity*. Illustrator **Sonia Liao**'s past credits include the *Ember in the Ashes* graphic novel and *A Thief Among the Trees*.

"A fun comic starring heroines who find themselves solving one scientific puzzle after the next!"

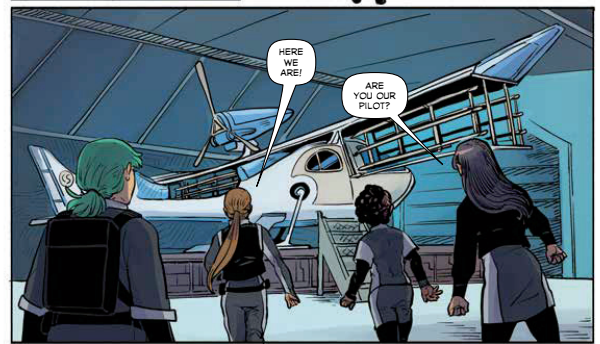
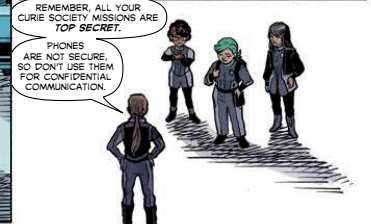
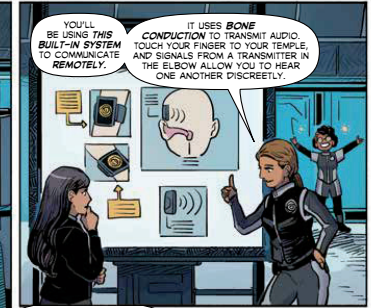
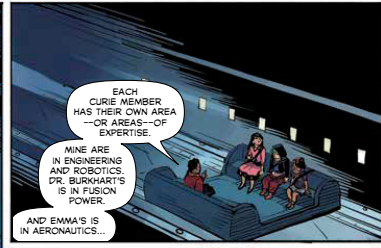
—**Andy Weir**,  
author of  
*The Martian*  
and *Artemis*

WHY ARE  
WE THE ONLY NEW  
EDMONDS CHAPTER  
RECRUITS?

DID  
SOMETHING  
HAPPEN?

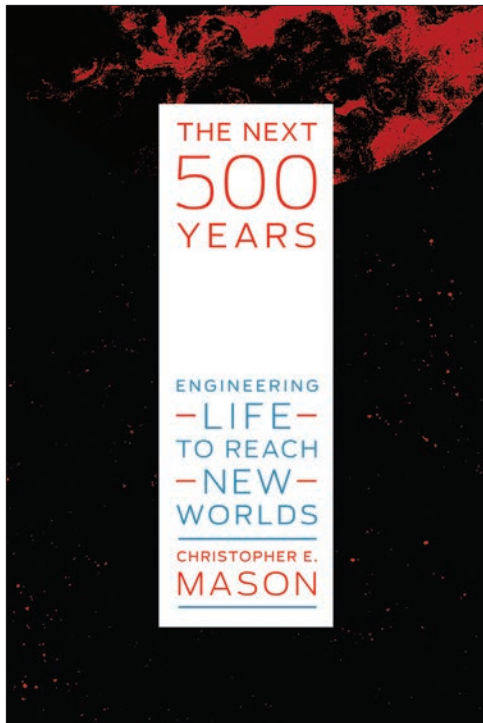






LET'S DO THIS.





**An argument that we have a moral duty to explore other planets and solar systems—because human life on Earth has an expiration date.**

April  
6 x 9, 304 pp.  
16 color illus., 24 b&w illus.

**US \$29.95T/\$39.95 CAN cloth**  
978-0-262-04440-0

## The Next 500 Years

Engineering Life to Reach New Worlds

**Christopher E. Mason**

Inevitably, life on Earth will come to an end, whether by climate disaster, or by cataclysmic war, or the death of the sun in a few billion years. To avoid extinction, will we have to find a new home planet, perhaps even a new solar system, to inhabit? In this provocative and fascinating book, Christopher Mason argues that we have a moral duty to do just that. Because we are the only species aware that life on Earth has an expiration date, we have a responsibility to act as the shepherd of lifeforms—not only for our species but for all species on which we depend and for those still to come (by accidental or designed evolution). Mason argues that the same capacity for ingenuity that has enabled us to build rockets and land on other planets can be applied to redesigning biology so that we can sustainably inhabit those planets. And he lays out a 500-year plan for undertaking the massively ambitious project of reengineering human genetics for life on other worlds.

As they are today, our frail human bodies could never survive exposed on another planet. Mason describes the toll that long-term space travel took on astronaut Scott Kelly, who returned from a year on the International Space Station with changes to his blood, his bones, and his genes. Mason proposes a ten-phase program that would engineer the genome so that humans could tolerate the extreme environments of outer space—with the ultimate goal of achieving human settlement of new solar systems. He lays out a roadmap of which solar systems to visit first, and merges biotechnology, philosophy, and genetics to offer an unparalleled vision of the universe to come.

**Christopher E. Mason** is a geneticist and computational biologist who has been a Principal Investigator and Co-investigator of seven NASA missions and projects. He is Associate Professor at Weill Cornell Medicine, with affiliate appointments at the Meyer Cancer Center, Memorial Sloan Kettering Cancer Center, and the Consortium for Space Genetics at Harvard Medical School.



## CRISPR People

The Science and Ethics of Editing Humans

**Henry T. Greely**

In November 2018, the world was shocked to learn that two babies had been born in China with DNA edited while they were embryos—as dramatic a development in genetics as the 1996 cloning of Dolly the sheep. In this book, Hank Greely, a leading authority on law and genetics, tells the fascinating story of this human experiment and its consequences. Greely explains what Chinese scientist He Jiankui did, how he did it, and how the public and other scientists learned about and reacted to this unprecedented genetic intervention.

The two babies, nonidentical twin girls, were the first “CRISPR’d” people ever born (CRISPR, Clustered Regularly Interspaced Short Palindromic Repeats, is a powerful gene-editing method). Greely not only describes He’s experiment and its public rollout (aided by a public relations adviser) but also considers, in a balanced and thoughtful way, the lessons to be drawn both from these CRISPR’d babies and, more broadly, from this kind of human DNA editing—“germline editing” that can be passed on from one generation to the next.

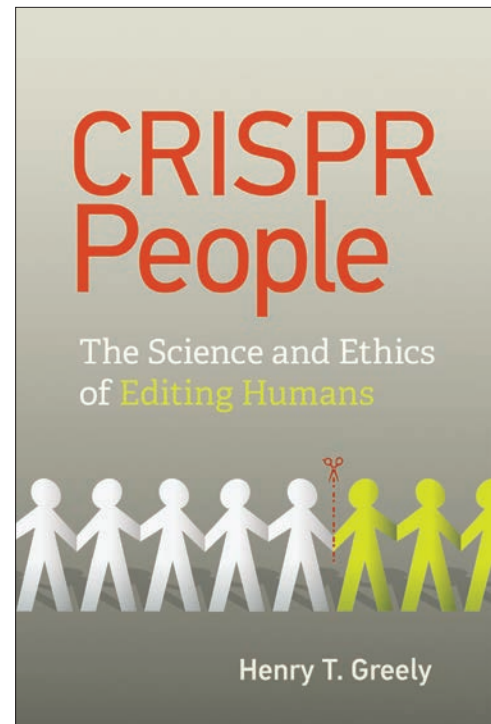
Greely doesn’t mince words, describing He’s experiment as grossly reckless, irresponsible, immoral, and illegal. Although he sees no inherent or unmanageable barriers to human germline editing, he also sees very few good uses for it—other, less risky, technologies can achieve the same benefits. We should consider the implications carefully before we proceed.

**Henry T. Greely** is Professor of Law, Professor by Courtesy of Genetics, and Director of the Stanford Center for Law and the Biosciences at Stanford University, where he also chairs the Steering Committee of the Stanford University Center for Biomedical Ethics and directs the Stanford Program in Neuroscience and Society.



**Henry T. Greely**

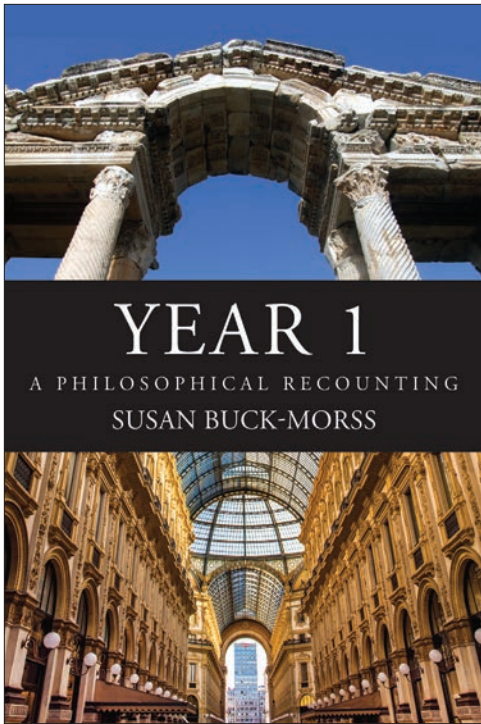
Photo by Steve Gladfelter.



**What does the birth of babies whose embryos have gone through genome editing mean—for science and for all of us?**

February  
5 3/8 x 8, 400 pp.

**US \$27.95T/\$36.95 CAN cloth**  
978-0-262-04443-1



**Reclaiming the first century  
as common ground rather than  
the origin of deeply entrenched  
differences: liberating the past  
to speak to us in another way.**

April  
6 x 9, 416 pp.  
71 illus.

**US \$27.95T/\$36.95 CAN cloth**  
978-0-262-04487-5

## YEAR 1

A Philosophical Recounting

**Susan Buck-Morss**

Conventional readings of antiquity cast Athens against Jerusalem, with Athens standing in for “reason” and Jerusalem for “faith.” And yet, Susan Buck-Morss reminds us, recent scholarship has overturned this separation. Naming the first century—“year one”—as a zero point that divides time into before and after is merely a retroactive numbering plan, nothing more than a convenience that is empirically meaningless. In *YEAR 1*, Buck-Morss liberates the past so it can speak to us in another way, reclaiming the first century as common ground rather than the origin of deeply entrenched differences.

Buck-Morss aims to topple various conceptual givens that have shaped modernity as an episteme and led us into some unhelpful post-modern impasses. She approaches the first century through the writings of three thinkers often marginalized: Flavius Josephus, historian of the Judean war; the neo-Platonic philosopher Philo of Alexandria; and John of Patmos, author of Revelation, the last chapter in the Christian Bible. Also making appearances are Antigone and John Coltrane, Plato and Bulwer-Lytton, al-Farabi and Jean Anouilh, Nicholas of Cusa and Zora Neale Hurston—not to mention Descartes, Kant, Hegel, Kristeva, and Derrida.

Buck-Morss shows that we need no longer partition history as if it were a homeless child in need of the protective wisdom of Solomon. Those inhabiting the first century belong together in time and therefore not to us.

**Susan Buck-Morss** is Distinguished Professor of Political Theory at the CUNY Graduate Center and Jan Rock Zubrow Professor Emerita of Government at Cornell University. She is the author of *Dreamworld and Catastrophe: The Passing of Mass Utopia in East and West* (MIT Press) and other books.

## Brave Green World

How Science Can Save Our Planet

**Chris Forman and Claire Asher**

In nature, there is little chemical waste; nearly every atom is a resource to be utilized by organisms, ensuring that all the available matter remains in a perpetual cycle. By contrast, human systems of energy production and manufacturing are linear; the end product is waste. In *Brave Green World*, Chris Forman and Claire Asher show what our linear systems can learn from the efficient circularity of ecosystems. They offer an unblinkered yet realistic and positive vision of a future in which we can combine biology and manufacturing to solve our central problems of waste and pollution.

Forman and Asher, both scientists and accomplished science communicators, explain how 3D printing and additive manufacturing processes, combined with synthetic biology technologies, could give companies complete control over their entire manufacturing chain—including the waste. They describe AI as the magic ingredient that can create advanced automated systems that generate the molecular, nanoscale, and macroscale tools designers need to fabricate a circular economy, and they argue that emerging new forms of computation in smart materials could be the backbone of our future infrastructure. Forman and Asher boldly address the large-scale issues of climate change, describing how the fusion of cutting-edge manufacturing and biology can offer solutions to Earth's existential crisis. Woven throughout the book is a provocative case study: how to grow an all-natural smart phone.

**Chris Forman** is a physicist, with a PhD in protein engineering, conducting research at Northwestern University into the organization of soft matter using experimental, theoretical, and computational approaches. **Claire Asher** is a biologist with a PhD in evolution and genetics, specializing in the behavior of ants. A widely published science writer, she has performed at the Edinburgh Fringe Festival and the Bloomsbury Theatre and appeared on BBC4 and BBC Radio 4.

"This vitally important book breaks down the complex principle of the circular economy and showcases exciting scientific developments. By making it simple and engaging, it explains how each one of us can have a say to create a different version of our future."

—**Roma Agrawal MBE, Structural Engineer and author of *Built: The Hidden Stories Behind Our Structures***

"The circular economy can seem a distant prospect. But Forman and Asher's clear, crisp text and intriguing examples show how the building blocks already exist in increasingly well-understood natural and engineered systems."

—**Georgina Mace, Professor of Biodiversity and Ecosystems and Director of the Centre for Biodiversity and Environment Research, University College London**



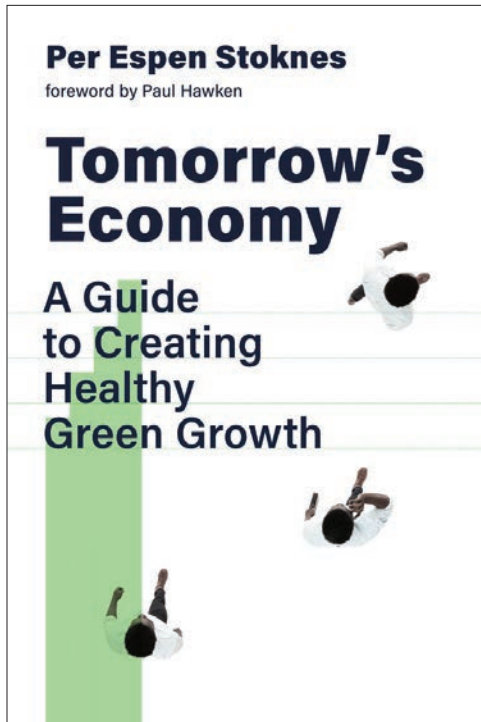
**How we can harness cutting-edge biology and manufacturing to fight waste and pollution.**

March  
6 1/2 x 9, 256 pp.

**US \$29.95 / \$39.95 CAN paper**  
978-0-262-04446-2

**For sale in North America only**





**A balance sheet for the planet: How we can achieve healthy growth—more regenerative than wasteful, instilling equity rather than exacerbating inequalities.**

March  
6 x 9, 384 pp.  
32 illus.

**US \$27.95T/\$36.95 CAN cloth**  
978-0-262-04485-1

## Tomorrow's Economy

A Guide to Creating Healthy Green Growth

**Per Espen Stoknes**

foreword by Paul Hawken

In *Tomorrow's Economy*, Per Espen Stoknes reframes the hot-button issue of economic growth. Going beyond the usual pro-growth versus anti-growth debate, Stoknes calls for healthy growth. Healthy economic growth is more regenerative than wasteful, repairs problems rather than greenwashing them, and restores equity rather than exacerbating inequalities. Stoknes—a psychologist, economist, climate strategy researcher, and green-tech entrepreneur—shows that we already have the tools to achieve healthy growth, but our success depends on transformations in scaling innovations, government practices, and individual behaviors. Stoknes provides a compass to guide us toward the mindset, mechanisms, and possibilities of healthy growth.

Stoknes explains that healthy growth reimagines value creation as resource smart and inclusive. Healthy growth is measurably profitable, more resource-productive, and more redistributive by design each year. Stoknes distinguishes between healthy and unhealthy kinds of economic growth at personal, corporate, city, national, and global levels, mapping a three-part synergy that benefits buyers, sellers, and society. He outlines actions we can take now—including the creation of a new legal entity, the benefit corporation—and lays out six steps companies can take toward healthy growth. He also describes how we can vote with our wallets to prioritize sustainability. The engaged citizen, he tells us, is central to the shift toward healing growth.

**Per Espen Stoknes** is Director of the Center for Sustainability and Energy at the Norwegian Business School in Oslo. His award-winning book *What We Think About When We Try Not to Think About Global Warming* became the focus of a TED Talk with more than three million views.



**Per Espen Stoknes**

"Too often growth supporters and anti-growthers come to loggerheads, neglecting the crucial issue of what kind of economic growth we're creating. Stoknes's growth compass is a crucial tool to guide us toward a finer future."

**—Hunter Lovins, coauthor  
of *Natural Capitalism***

## Hidden Wonders

The Subtle Dialogue Between Physics and Elegance

**Étienne Guyon, José Bico, Étienne Reyssat,  
and Benoît Roman**

translated by Patsy Baudoin

*Hidden Wonders* focuses on the objects that populate our everyday life—crumpled paper, woven fabric, a sand pile—but looks at them with a physicist's eye, revealing a hidden elegance in mundane physical mechanisms. In six chapters—Builders, Creating Shapes, Building with Threads, From Sand to Glass, Matter in Motion, and Fractures—the authors present brief stories, set in locales ranging from the Eiffel Tower to a sandcastle, that illustrate the little wonders hidden in the ordinary. A simple experiment that readers can perform at home concludes each story. Two hundred illustrations bring the stories to life.

Through these stories and images, the authors explain the amazing mechanisms that govern the elements that surround us, offering a close look at the subtle dialogue of form, force, and function. They connect the underlying physics to a range of applications: crumpled graphene sheets that may be used in batteries, wet-hair physics that must be taken into account in the manufacturing of mechanical microdevices, pine cone mechanisms used in contemporary architecture, and more. Each chapter offers striking two-page spreads of text and images.

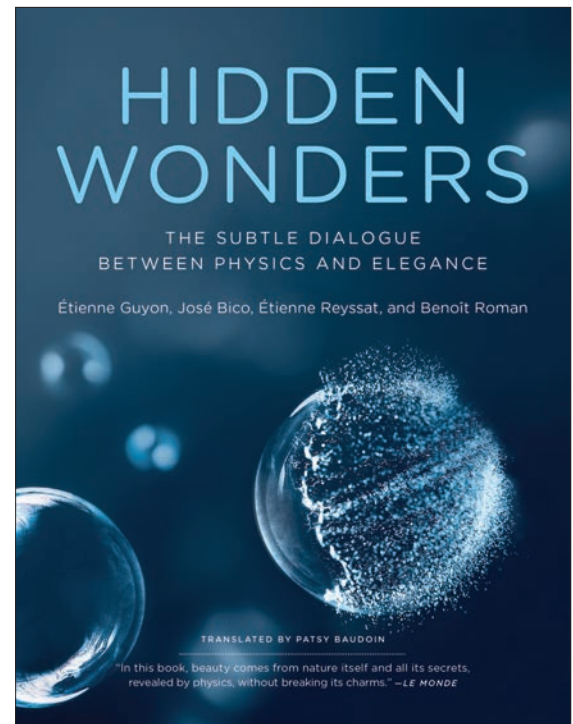
**Étienne Guyon** is Emeritus Professor at ESPCI (Paris Industrial Physics and Chemistry Higher Educational Institution), a fellow of the American Physical Society and of the Institute of Physics, Honorary Director of the Ecole Normale Supérieure, and coauthor of *Built on Sand: The Science of Granular Materials* (MIT Press). **José Bico** is Associate Professor at ESPCI-PSL (Paris Science Lettres Université). **Étienne Reyssat** and **Benoît Roman** are CNRS researchers. All authors work at the PMMH (Physics and Mechanics of Heterogeneous Media) lab of ESPCI-PSL in Sorbonne Université.

"In this book, beauty comes from nature itself and all its secrets, revealed by physics, without breaking its charms."

—**Le Monde**

"How everyday objects reflect deep and beautiful mathematics and physics. You'll never look at a bubble, a spider's web, or a wineglass in quite the same way again. Utterly fascinating!"

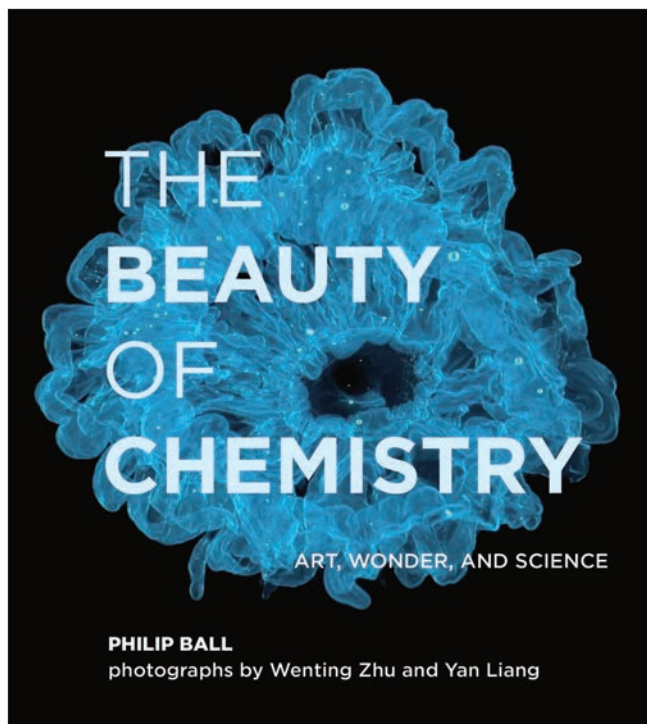
—**Ian Stewart, author of *Do Dice Play God?*, *Calculating the Cosmos*,  
and *The Beauty of Numbers in Nature***



**The hidden elegance in  
everyday objects and physical  
mechanisms, from crumpled  
paper to sandcastles.**

February  
6 1/4 x 8 1/4, 324 pp.  
200 illus.

**US \$29.95T/\$39.95 CAN paper**  
978-0-262-53989-0



Images and text capture the astonishing beauty of the chemical processes that create snowflakes, bubbles, flames, and other wonders of nature.

May  
8 x 9, 400 pp.  
354 color illus.

US \$49.95T/\$65.95 CAN cloth  
978-0-262-04441-7

## The Beauty of Chemistry

Art, Wonder, and Science

**Philip Ball**

photographs by Wenting Zhu and Yan Liang

Chemistry is not just about microscopic atoms doing inscrutable things; it is the process that makes flowers and galaxies. We rely on it for bread-baking, vegetable-growing, and producing the materials of daily life. In stunning images and illuminating text, this book captures chemistry as it unfolds. Using such techniques as microphotography, time-lapse photography, and infrared thermal imaging, *The Beauty of Chemistry* shows us how chemistry underpins the formation of snowflakes, the science of champagne, the colors of flowers, and other wonders of nature and technology. We see the marvelous configurations of chemical gardens; the amazing transformations of evaporation, distillation, and precipitation; heat made visible; and more.

The visuals in *The Beauty of Chemistry* are drawn from the online exhibition *Envisioning Chemistry* created by Wenting Zhu and Yan Liang in collaboration with the Chinese Chemical Society. These striking images are accompanied by accessible, engaging explanations by award-winning science writer Philip Ball.

**Philip Ball** is the author of many critically acclaimed books of popular science, including *Critical Mass: How One Thing Leads to Another*, *The Elements: A Very Short Introduction*, and *Beyond Weird: Why Everything You Thought You Knew about Quantum Physics Is Different*. **Wenting Zhu** is an artist, designer, and photographer. **Yan Liang** is Associate Professor at the University of Science and Technology of China and the founder and producer of the educational brand *Beauty of Science*. He has worked as a science animator and illustrator.

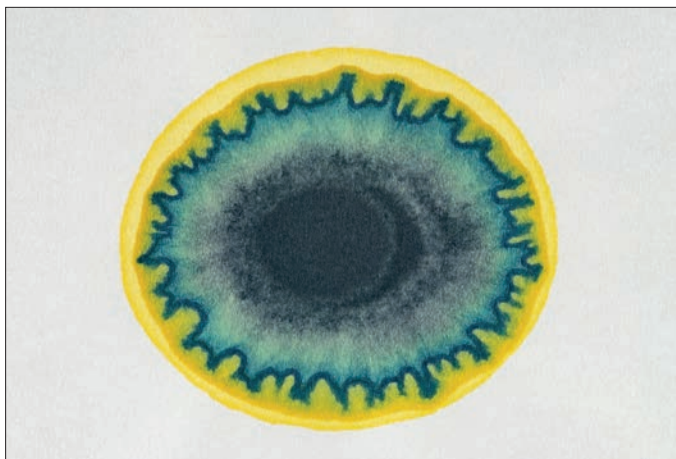
"Philip Ball is a serendipitous writer, pursuing adventurous science. He loves to persuade and enchant his readers to celebrate the uncanny beauty of chemistry."

—**Dudley Herschbach, Nobel Laureate in Chemistry, Harvard University**

"As a child, I was drawn to chemistry by the wonders of precipitating powders, fizzy water, and other ever-present phenomena. *The Beauty of Chemistry* took me back to those times."

—**Alán Aspuru-Guzik, Professor of Chemistry and Computer Science, University of Toronto**

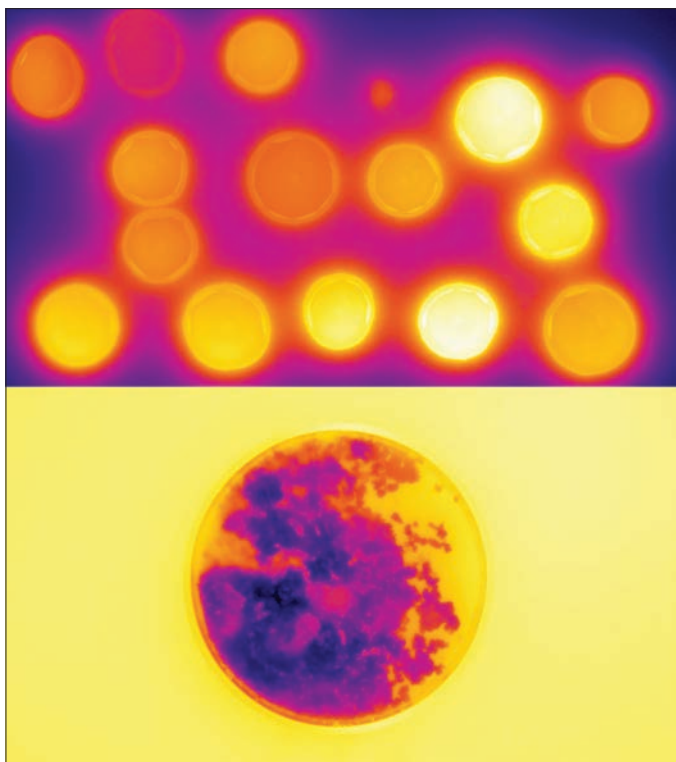




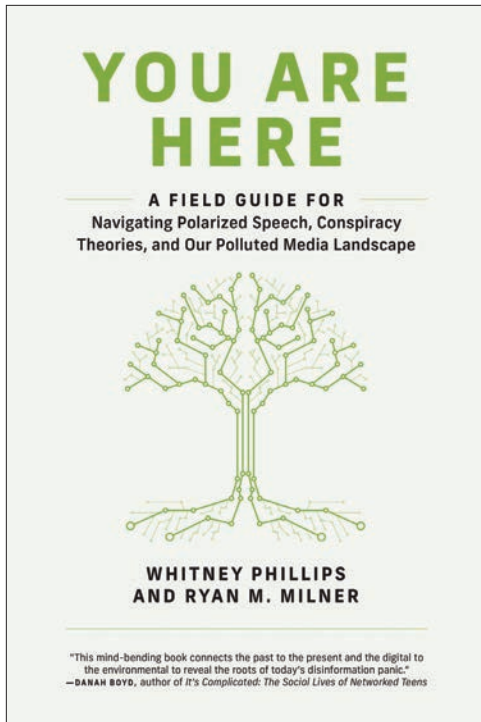
Photograph by Wenting Zhu and Yan Liang, from *The Beauty of Chemistry*, "10 Patterns."



Photograph by Wenting Zhu and Yan Liang, from *The Beauty of Chemistry*, "10 Patterns."



Photograph by Wenting Zhu and Yan Liang, from *The Beauty of Chemistry*, "Seeing the Heat."



**How to understand a media environment in crisis, and how to make things better by approaching information ecologically.**

March  
6 x 9, 280 pp.

**US \$22.95T/\$29.95 CAN paper**  
978-0-262-53991-3

## You Are Here

A Field Guide for Navigating Polarized Speech, Conspiracy Theories, and Our Polluted Media Landscape

**Whitney Phillips and Ryan M. Milner**

Our media environment is in crisis. Polarization is rampant. Polluted information floods social media. Even our best efforts to help clean up can backfire, sending toxins roaring across the landscape. In *You Are Here*, Whitney Phillips and Ryan Milner offer strategies for navigating increasingly treacherous information flows. Using ecological metaphors, they emphasize how our individual *me* is entwined within a much larger *we*, and how everyone fits within an ever-shifting network map.

Phillips and Milner describe how our poisoned media landscape came into being, beginning with the Satanic Panics of the 1980s and 1990s—which, they say, exemplify “network climate change”—and proceeding through the emergence of trolling culture and the rise of the reactionary far right (as well as its amplification by journalists) during and after the 2016 election. They explore the history of conspiracy theories in the United States, focusing on those concerning the Deep State; explain why old media literacy solutions fail to solve new media literacy problems; and suggest how we can navigate the network crisis more thoughtfully, effectively, and ethically. We need a network ethics that looks beyond the messages and the messengers to investigate toxic information’s downstream effects.

**Whitney Phillips** is Assistant Professor in the Department of Communication and Rhetorical Studies at Syracuse University and the author of *This Is Why We Can't Have Nice Things: Mapping the Relationship between Online Trolling and Mainstream Culture* (MIT Press).

**Ryan M. Milner** is Associate Professor of Communication at the College of Charleston and author of *The World Made Meme: Public Conversations and Participatory Media* (MIT Press).

“Whitney Phillips and Ryan Milner have a knack for taking a topic you think you understand and then rearranging your entire worldview, leaving you gobsmacked and wanting more. This mind-bending book connects the past to the present and the digital to the environmental to reveal the roots of today’s disinformation panic.”

—**danah boyd, author of *It's Complicated: The Social Lives of Networked Teens***

“Our country is under attack by our foreign adversaries and their domestic partners, and we need to better understand what’s going on. *You Are Here* helps us do that and helps us understand how we can all stand together and fight back.”

—**Craig Newmark, founder of craigslist and Craig Newmark Philanthropies**

## Gut Feelings

The Microbiome and Our Health

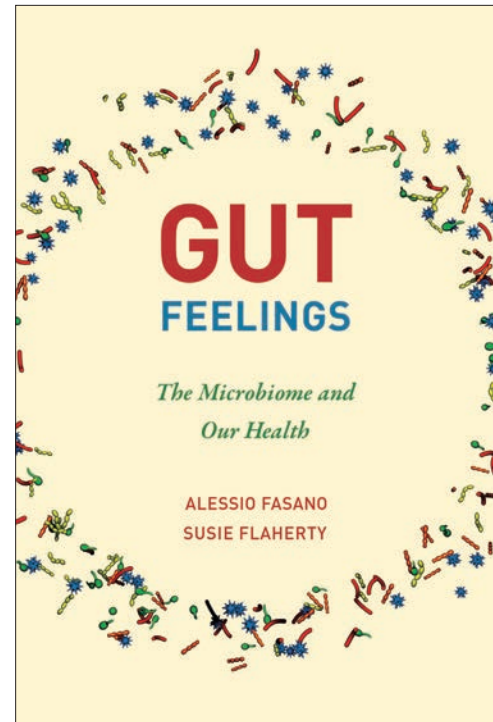
**Alessio Fasano and Susie Flaherty**

We are at the dawn of new scientific revolution. Our understanding of how to treat and prevent diseases has been transformed by knowledge of the microbiome—the rich ecosystem of microorganisms in and on every human. These microbial hitchhikers may hold the keys to human health. In *Gut Feelings*, Alessio Fasano and Susie Flaherty show why we must go beyond the older, myopic view of microorganisms as our enemies to a broader understanding of the microbiome as a parallel civilization that we need to understand, respect, and engage with for the benefit of our own health.

Recent advances in understanding the microbiome and its role in human health dovetail with the development of personalized or “precision” medicine to create treatments and prevention programs targeted to the molecular imprint of an individual. Fasano and Flaherty explore the microbiome’s part in such diseases as gut inflammatory disorders, obesity, neurological conditions, and cancer, and they explain new research in prebiotics, probiotics, synbiotics, and psychobiotics. They also discuss the microbiome and immune function, including a possible role in COVID-19 treatment.

By simultaneously expanding our perspective to encompass large datasets and multiple factors in human health, and narrowing our focus to identify the individual communities in the human microbiome, we will enlarge—and perhaps reinvent—our understanding of how to combat disease and maintain health.

**Alessio Fasano** is the W. Allan Walker Chair of Pediatric Gastroenterology and Nutrition at Massachusetts General Hospital, Professor of Pediatrics at Harvard Medical School, and Professor of Nutrition at the Harvard T. H. Chan School of Public Health. He is also Founder and Director of the Center for Celiac Research and Treatment at MGH. Award-winning writer and editor **Susie Flaherty** is Director of Communications at the Center for Celiac Research and Treatment. Fasano and Flaherty are the authors of *Gluten Freedom*.



**Why the microbiome—our rich inner ecosystem of microorganisms—may hold the keys to human health.**

March  
5 3/8 x 8, 528 pp.  
9 illus.

**US \$27.95T/\$36.95 CAN cloth**  
978-0-262-04427-1



Alessio Fasano



Susie Flaherty



## People Count

Contact-Tracing Apps and Public Health

**Susan Landau**

**An introduction to the technology of contact tracing and its usefulness for public health, considering questions of efficacy, equity, and privacy.**

March  
5 3/8 x 8, 120 pp.

**US \$24.95T/\$33.95 CAN cloth**  
978-0-262-04571-1

Contact tracing is key to containing and controlling the spread of a virus in a pandemic. South Korea, China, and Singapore were among the few countries that quickly employed contact tracing after the emergence of COVID-19; the United States did not. In *People Count*, cybersecurity expert Susan Landau offers an accessible examination of the technology and efficacy of contact tracing in a pandemic. Can we repurpose the tracking technology that we carry with us—devices with GPS, Wi-Fi, Bluetooth, and social media connectivity—to serve public health in a pandemic?

Landau explains how contact tracing—the careful mapping of the virus’s route from person to person—starts as a people-to-people effort, and she looks at what role technology might play. Can it really help? GPS locates people outdoors—but COVID-19 largely spreads indoors. Bluetooth does track people inside—even through walls, which is not how COVID-19 spreads. So when can such technology be efficacious? Landau explains the effectiveness (or ineffectiveness) of a range of technological interventions, finding that cellphone location data is not precise enough to trace close contacts. She describes tracing methods that protect privacy, including encryption and aggregation. She considers issues of equity—the disparate effect on different communities—and the long-term social impact of contract-tracing technologies. COVID-19 will not be our last pandemic; we need to get this essential method of infection control right.

**Susan Landau** is Bridge Professor of Cyber Security and Policy at the Fletcher School of Law and Diplomacy and at the School of Engineering, Department of Computer Science, at Tufts University. She is the coauthor of *Privacy on the Line* (MIT Press) and the author of *Surveillance or Security?* (MIT Press) and *Listening In: Cybersecurity in an Insecure Age*.

## Make Shift

Dispatches from the Post-Pandemic Future

**Gideon Lichfield**

This new volume in the Twelve Tomorrows series of science fiction anthologies looks at how science and technology—existing or speculative—might help us create a more equitable and hopeful world after the coronavirus pandemic. The original stories presented here, from a diverse collection of authors, offer no miracles or simple utopias, but visions of ingenuity, grit, and incremental improvement. In the tradition of inspirational science fiction that goes back to Isaac Asimov and Arthur C. Clarke, these writers remind us that we can choose our future, and show us how we might build it.

In these imagined futures, telepresence tourism replaces the viral dangers and environmental destruction of international travel; hackers attempt to disrupt the new quadratic voting system; robot bartenders administer vaccines; a Canadian farmer grows grain for the national rationing program; Hong Kong refugees create an augmented reality performance space for the Edinburgh Festival; a worker must choose between his daughter and his job caring for the people and environment of the locked-down and rewilded Kolkata. In addition, Wade Roush, science writer and editor of a previous Twelve Tomorrows anthology, interviews Ytasha Womack, author of *Afrofuturism* and *Post Black*, about the pandemic, racial justice, and how science fiction can help us imagine a healthier, fairer society.

**Gideon Lichfield** is Editor-in-Chief of *MIT Technology Review*.

### Stories by

Madeline Ashby, Indrapramit Das, Cory Doctorow, Adrian Hon, Rich Larson, Ken Liu, Malka Older, Hannu Rajaniemi, Karl Schroeder, D.A. Xiaolin Spires

### Interview

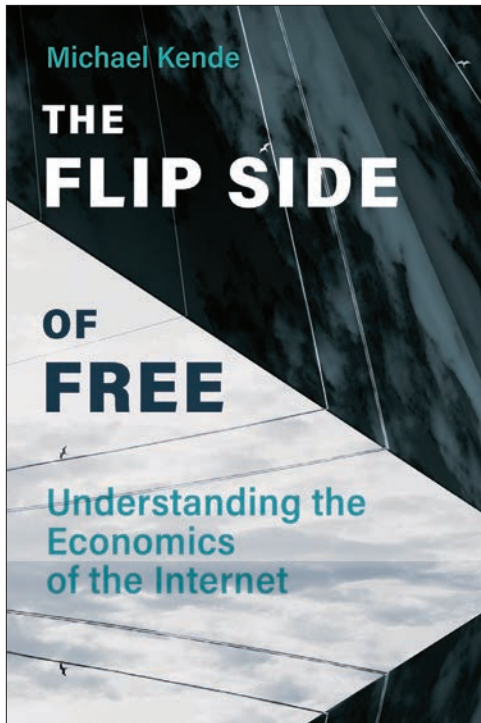
Wade Roush, Ytasha Womack

**Science fiction stories of pandemic-inspired ingenuity, grit, and determination.**

May  
6 x 9, 176 pp.

**US \$19.95T/\$25.95 CAN paper**  
978-0-262-54240-1

**Twelve Tomorrows**



**Why “free” comes at a price: the costs of free internet services in terms of privacy, cybersecurity, and the growing market power of technology giants.**

March  
6 x 9, 256 pp.  
3 illus.

**US \$29.95T/\$39.95 CAN cloth**  
978-0-262-04565-0

## The Flip Side of Free

Understanding the Economics of the Internet

**Michael Kende**

The upside of the internet is free Wi-Fi at Starbucks, Facetime over long-distances, and nearly unlimited data for downloading or streaming. The downside is that our data goes to companies that use it to make money, our financial information is exposed to hackers, and the market power of technology companies continues to increase. In *The Flip Side of Free*, Michael Kende shows that free internet comes at a price. We’re beginning to realize this. Our all-purpose techno-caveat is “I love my smart phone,” *but* is it really tracking everything I do? listening to everything I say?

Kende explains the unique economics of the internet and the paradoxes that result. The most valuable companies in the world are now internet companies, built on data often exchanged for free content and services. Many users know the impact of this tradeoff on privacy but continue to use the services anyway. Moreover, although the internet lowers barriers for companies to enter markets, it is hard to compete with the largest providers. We complain about companies having too much data, but developing countries without widespread internet usage may suffer from the reverse: not enough data collection for the development of advanced services—which leads to a worsening data divide between developed and developing countries.

What’s the future of free? Data is the price of free service, and the new currency of the internet age. There’s nothing necessarily wrong with free, Kende says, as long as we anticipate and try to mitigate what’s on the flip side.

**Michael Kende** is a Senior Fellow and Visiting Lecturer at the Graduate Institute of International and Development Studies, Geneva, a Senior Adviser at Analysys Mason, a Digital Development Specialist at the World Bank Group, and former Chief Economist of the Internet Society. He has worked as an academic economist at INSEAD and as a US regulator at the Federal Communications Commission.



**Michael Kende**

Photo by Manon Volland

“I read this book in one sitting. So should you. Clear, balanced, nuanced and analytic. I have lived the internet story and this book put choices in a clear light.”

—Vint Cerf, internet pioneer

## Combating Inequality

Rethinking Government's Role

edited by **Olivier Blanchard and Dani Rodrik**

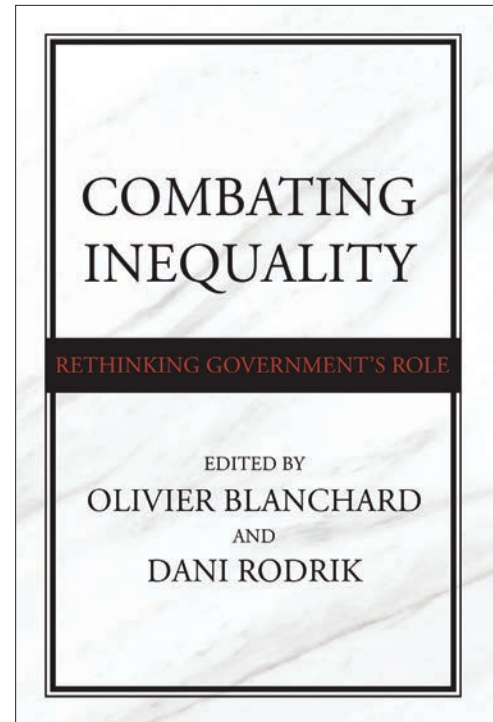
Economic inequality is the defining issue of our time. In the United States, the wealth share of the top 1% has risen from 25% in the late 1970s to around 40% today. The percentage of children earning more than their parents has fallen from 90% in the 1940s to around 50% today. In *Combating Inequality*, leading economists, many of them current or former policymakers, bring good news: we have the tools to reverse the rise in inequality. In their discussions, they consider which of these tools are the most effective at doing so.

The contributors express widespread agreement that we need to aim policies at economic inequality itself; deregulation and economic stimulus will not do the job. No longer does anyone ask, in relation to expanded social programs, “Can we pay for it?” And most believe that US taxes will have to rise—although they debate whether the progressivity should focus on the revenue side or the expenditure side, through broad-based taxes like the VAT or through a wealth tax aimed at the very top of the income scale. They also consider the philosophical aspects of inequality—whether it is bad in itself or because of its consequences; the risks and benefits of more radical interventions to change the nature of production and trade; and future policy directions.

**Olivier Blanchard** is C. Fred Bergsten Senior Fellow at the Peterson Institute for International Economics and Robert Solow Professor of Economics Emeritus at MIT. He was Chief Economist at the International Monetary Fund from 2008 to 2015. **Dani Rodrik** is Ford Foundation Professor of International Political Economy at Harvard's John F. Kennedy School of Government and President-Elect of the International Economic Association.

### Contributors

Daron Acemoglu, Philippe Aghion, Danielle Allen, Ben Ansell, David Autor, Sheri Berman, Marianne Bertrand, Olivier Blanchard, Lucas Chancel, William Darity Jr., Peter Diamond, Christian Dustmann, David T. Ellwood, Richard Freeman, Caroline Freund, Jason Furman, Hilary Hoynes, Lawrence F. Katz, Wojciech Kopczuk, N. Gregory Mankiw, Nolan McCarty, Dani Rodrik, Jesse Rothstein, Emmanuel Saez, T. M. Scanlon, Tharman Shanmugaratnam, Heidi Shierholz, Stefanie Stantcheva, Michael Stynes, Lawrence Summers, Laura D'Andrea Tyson, Philippe Van Parijs, Gabriel Zucman

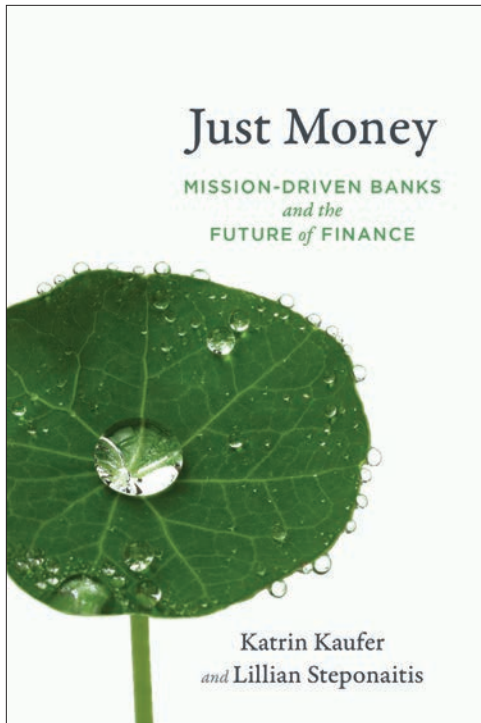


**Leading economists and policymakers consider what economic tools are most effective in reversing the rise in inequality.**

February  
6 x 9, 312 pp.  
40 illus.

**US \$34.95T/\$45.95 CAN cloth**  
978-0-262-04561-2





**How to use finance as a tool  
to build a more equitable and  
sustainable society.**

February  
5 3/8 x 8, 192 pp.  
4 illus.

**US \$17.95T/\$23.95 CAN paper**  
978-0-262-54222-7

## Just Money

Mission-Driven Banks and the Future of Finance

**Katrin Kaufer and Lillian Steponaitis**

Money defines our present and will shape our future. Every investment decision we make adds a chapter to the story of what our world will look like. Although the idea of mission-based finance has been around for decades, there is a gap between organizations' stated intention to "do good" and meaningful impact. Still, some are succeeding. In *Just Money*, Katrin Kaufer and Lillian Steponaitis take readers on a global tour of financial institutions that use finance as a force for good.

Kaufer and Steponaitis visit a bank in Europe that bases its business model on full transparency; a credit union in Canada that designed an alternative to payday lending for its community; and microfinance institutions in El Salvador and Bangladesh that provide financing to small-business clients who do not have access to the mainstream banking system. They discuss what it takes to build and operate a mission-focused business, whether the Just Banking model is scalable in the face of systemic barriers, and how to assess impact effectively. Finally, they introduce the logic of ecosystem finance, in which business decisions align with societal needs. Doing so requires more than adding impact indicators; it requires developing a new business model. With *Just Money*, Kaufer and Steponaitis remind us that money, if used intentionally and equitably, can be just money—a tool that serves nature, human development, and social justice.

**Katrin Kaufer** is Director of Just Money at the MIT Community Innovators Lab (CoLab) in MIT's Department of Urban Studies and Planning, and Executive Director of the Presencing Institute. **Lillian Steponaitis** is a Research Affiliate in the MIT Community Innovators Lab and a Special Projects Manager at the Self-Help Federal Credit Union.

## Workforce Education

A New Roadmap

**William B. Bonvillian and Sanjay E. Sarma**

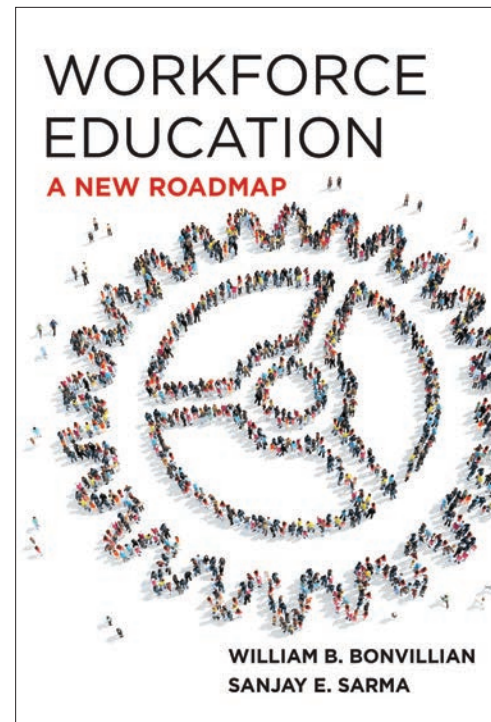
The American dream promised that if you worked hard, you could move up, with well-paying working-class jobs providing a gateway to an ever-growing middle class. Today, however, we have increasing inequality, not economic convergence. Technological advances are putting quality jobs out of reach for workers who lack the proper skills and training. In *Workforce Education*, William Bonvillian and Sanjay Sarma offer a roadmap for rebuilding America's working class. They argue that we need to train more workers more quickly, and they describe innovative methods of workforce education that are being developed across the country.

It's not just that we need a pipeline of skilled workers for future jobs; we need to give workers the skills they need now. Focusing on manufacturing, healthcare, and retail sectors, Bonvillian and Sarma investigate programs that reimagine workforce education, from short intensive courses that offer certification to a new model for apprenticeships. They examine the roles of community colleges, employers, governments, and universities in workforce education, and describe new education technologies that can deliver training to workers. We can't tackle inequality unless we equip our workers for twenty-first-century jobs.

**William B. Bonvillian** is Lecturer at MIT in the Science Technology and Society Department and Senior Director of Special Projects at MIT's Office of Digital Learning. He is the coauthor of *Structuring an Energy Technology Revolution* and *Advanced Manufacturing* (both published by the MIT Press). **Sanjay E. Sarma** is Fred Fort Flowers and Daniel Fort Flowers Professor of Mechanical Engineering at MIT, where he is also Vice President for Open Learning. He is the coauthor of *The Inversion Factor* (MIT Press) and *Grasp: The Science Transforming How We Learn*.

"Bonvillian and Sarma tackle one of the toughest, and most important problems facing the United States."

—**Robert Siegel, former host of NPR's *All Things Considered***



**A roadmap for how we can  
rebuild America's working class  
by transforming workforce  
education and training.**

February  
6 x 9, 368 pp.  
2 illus.

**US \$34.95T/\$45.95 CAN cloth**  
978-0-262-04488-2

## Yesterday's Tomorrow

On the Loneliness of Communist Specters and the Reconstruction of the Future

**Bini Adamczak**

translated by Adrian Nathan West

foreword by Raymond Geuss

**How the communist revolution failed, presented in a series of catastrophes.**

April  
5 3/8 x 8, 184 pp.

**US \$24.95T/\$33.95 CAN cloth**  
978-0-262-04513-1

*Also available*

**Communism for Kids**  
Bini Adamczak

US \$12.95T/\$17.50 CAN paper  
978-0-262-53335-5

The communist project in the twentieth century grew out of utopian desires to oppose class structures and abolish oppression. The attempts to realize these ideals, however, became a series of colossal failures. In *Yesterday's Tomorrow*, Bini Adamczak examines these catastrophes, proceeding in reverse chronological order from 1939 to 1917. Adamczak reflects on the Hitler–Stalin Pact, the Great Terror of 1937, the failure of the European Left to prevent National Socialism, Stalin's rise to power, and the bloody defeat of the rebellion at Kronstadt as she seeks a future that never happened.

If Adamczak framed communism as a fairy tale with the possibility of a happy ending in her earlier book *Communism for Kids*, here she offers a tragedy for grownups. She describes the deportation of exiled anti-fascists back to Nazi Germany—a betrayal of communists by communists; the initial incredulity of European Communists at the news of the Hitler–Stalin pact; Stalin's state socialist terror plan, with quotas for executions instead of crops; the disappearance of class and the emergence of tactical and economic calculus; the withering into unrecognizability and impossibility of the revolution's successes; and the cheap promise that “next time it will be democratic.” What weighs on the possibility of communist desire, Adamczak writes, is not just the end of history, but first and foremost, the end of the revolution. Not just 1989, but also, even more so, 1939, 1938, and back to 1924, to 1917. Only if we understand this history can we work toward a better future.

**Bini Adamczak** is a Berlin-based social theorist and artist who writes on political theory, queer politics, and the past future of revolutions. She is the author of *Communism for Kids* (MIT Press).

The first reproach against anticommunism must be that of downplaying the crimes of Stalinism. Not because an idea was murdered alongside the people in the gulags—how cynical—but because communism alone brought forth into the world the historically actionable demand to accept no disenfranchisement, to tolerate no more degradation.

—from *Yesterday's Tomorrow*

# The Monopoly of Man

**Anna Kuliscioff**

translated by Lorenzo Chiesa

introduction by Jamila M. H. Mascot

Anna Kuliscioff (c. 1854–1925) was a prominent figure in the revolutionary politics of her era, advocating for socialism and feminism. One of the founding members of the Italian Socialist Party, she actively contributed to the late-nineteenth-century flourishing of the Socialist International and the emergence of Italian socialism. For the last decades of her life, Kuliscioff's public militancy revolved around the “woman question.” She viewed feminism through the lens of class struggle, addressing the double exploitation of women—in the workplace and at home. Kuliscioff fought a twofold battle: as a socialist, she unmasked the sexism of her colleagues; as a feminist, she criticized liberal-bourgeois feminism. In this key text, she makes her case for a socialist feminism.

Originating as a lecture Kuliscioff delivered in April 1890 at the Milan Philological Circle (which denied membership to women), *The Monopoly of Man* explicitly links feminism to labor. Kuliscioff argues that labor frees women from the prison of the household and potentially fosters their emancipation; she advances the principle of equal pay for equal work. She declares that woman is enslaved by both her husband and by capital, calls marriage a form of women's servitude, and demands that motherhood be better appreciated as work. It is only when woman is economically independent and resists capitalism, she argues, will she achieve freedom, dignity, and the respect of the other sex.

**Anna Kuliscioff** (c. 1854–1925) was a feminist and socialist revolutionary. Born in Crimea, she was a leading figure in the Italian socialist movement.

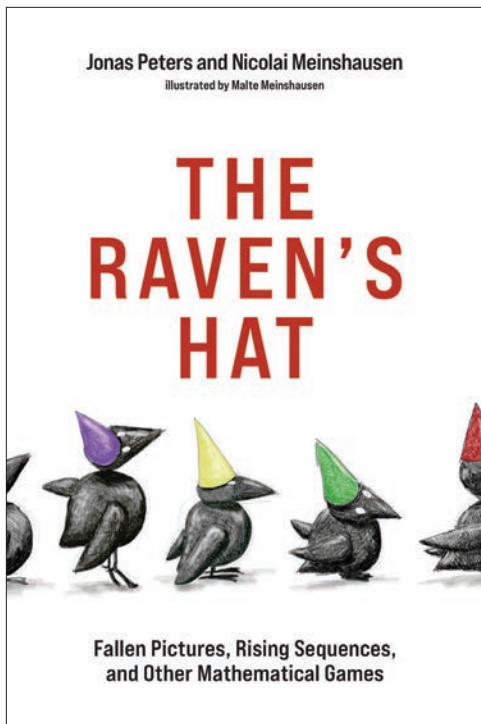
**A key text by a leading figure in Italian socialist feminism that remains relevant today, addressing the exploitation of women in the workplace and at home.**

April  
5 1/4 x 8, 112 pp.

**US \$16.95T/\$22.95 CAN cloth**  
978-0-262-04539-1

**Insubordinations: Italian Radical Thought**





**Games that show how  
mathematics can solve the  
apparently unsolvable.**

February  
5 3/8 x 8, 192 pp.  
25 color illus., 5 b&w illus.

**US \$24.95T/\$33.95 CAN paper**  
978-0-262-04451-6

## The Raven's Hat

Fallen Pictures, Rising Sequences, and Other  
Mathematical Games

**Jonas Peters and Nicolai Meinshausen**

illustrated by Malte Meinshausen

This book presents a series of engaging games that seem unsolvable—but can be solved when they are translated into mathematical terms. How can players find their ID cards when the cards are distributed randomly among twenty boxes? By applying the theory of permutations. How can a player guess the color of her own hat when she can only see other players' hats? Hamming codes, which are used in communication technologies. Like magic, mathematics solves the apparently unsolvable. The games allow readers, including university students or anyone with high school-level math, to experience the joy of mathematical discovery.

The authors set up each game, specifying the number of players and props needed, and show readers how mathematical language reveals the problem's underlying structure. They explain the mathematical concepts with many examples, describe the history of the problem, and offer practical advice. Colorful and clever illustrations, featuring a flock of mathematically inclined ravens, help clarify things. All of the games can be presented to an audience; each one runs from sixty to ninety minutes, suitable for seminar presentations or lectures. The authors aim at maintaining mathematical precision while avoiding overly complex notation. Appendixes go into more detail, reviewing frequently used mathematical symbols, providing further information on a range of mathematical concepts, and offering chapter-specific mathematical explanations.

**Jonas Peters** is Professor of Statistics at the University of Copenhagen. **Nicolai Meinshausen** is Professor of Statistics at ETH (Swiss Federal Institute of Technology) in Zurich.

"This is a fantastic book! It's full of clever and carefully constructed puzzles that will entertain any mathematically curious reader, from novice to expert."

—**Richard J. Samworth, Professor of Statistical Science,  
University of Cambridge**

"A book of intriguing problems that are simple to state and yet seem impossible to solve. Each problem has been carefully chosen to illustrate an important mathematical concept. The lucid explanations provide aha moments that connect the problems to key ideas in a wide variety of undergraduate courses. A wonderful book for someone who likes mathematics and likes to be challenged!"

—**Chris Bernhardt, author of *Quantum Computing for Everyone***

# Graphic Artists Guild Handbook

Pricing & Ethical Guidelines

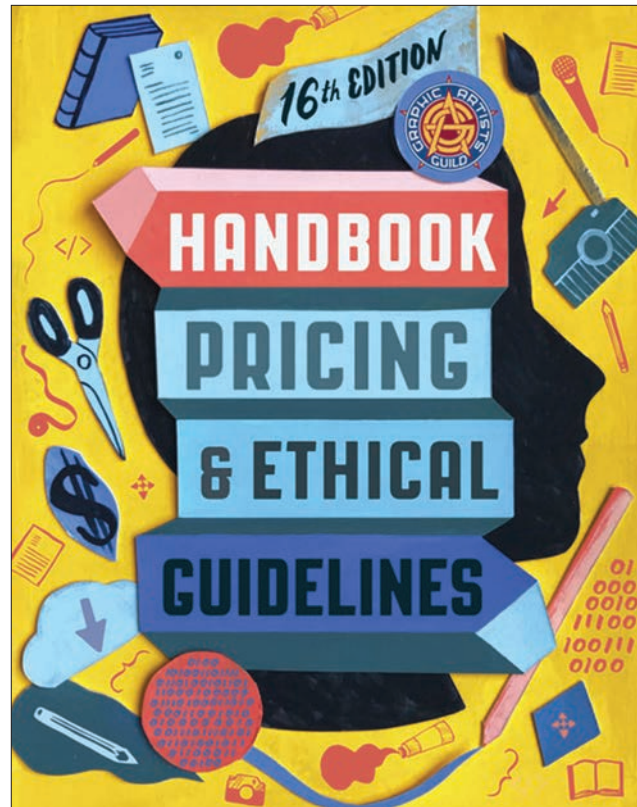
**The Graphic Artists Guild**  
sixteenth edition

For forty-eight years, the *Graphic Artists Guild Handbook* has been the industry bible for graphic arts professionals. This sixteenth edition represents the most ambitious revision and redesign in over a decade, providing both artists and clients the very latest information on business, ethical, and legal issues. As the graphic art marketplace continues to evolve to meet the needs of both digital and print media, the new *Handbook* offers professionals an essential guide for keeping up with rapidly changing technology.

For the sixteenth edition, the content has been reorganized, topics have been expanded, and new chapters have been added to create a resource that is more relevant to how graphic artists work today. Features include:

- More in-depth information for the self-employed on how to price work to make a sustainable living and plan for times of economic uncertainty.
- A new chapter on using skills and talents to maximize income with multiple revenue streams—workshops, videos, niche markets, passion projects, selling art, and much more.
- Current U.S. salary information and freelance rates by discipline.
- Pricing guidelines for buyers and sellers.
- Up-to-date copyright registration information.
- Model contracts and forms to adapt to your specific needs.
- Interviews with eleven self-employed graphic artists who have created successful careers, using many of the practices found in this *Handbook*.

**The Graphic Artists Guild** is a membership organization of creative professionals working in the graphic arts fields.

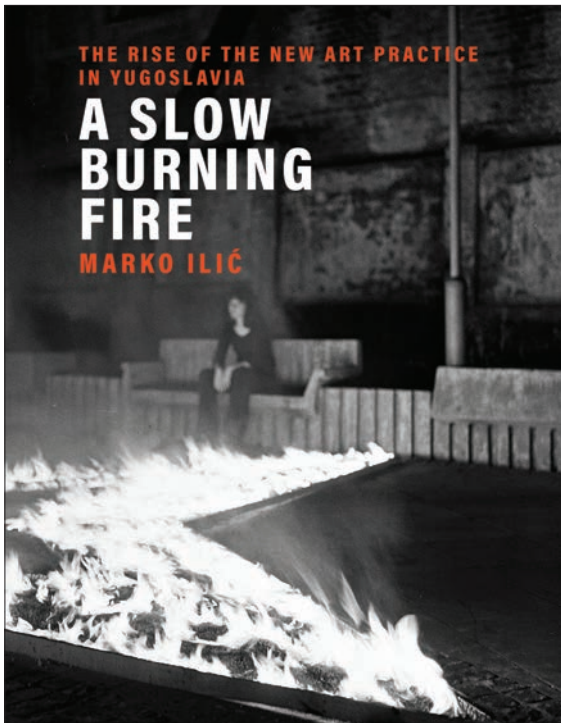


**The industry bible for graphic arts professionals, with pricing guidelines and information on business, ethical, and legal issues.**

May  
8 1/2 x 11, 448 pp.  
50 illus.

**US \$49.95T/\$65.95 CAN paper**

978-0-262-54239-5



**The first comprehensive study of the former Yugoslavia's diverse and groundbreaking alternative art scenes from the 1960s to the 1980s.**

February  
7 x 9, 384 pp.  
55 color illus., 75 b&w illus.

**US \$39.95T/\$53.95 CAN cloth**  
978-0-262-04484-4

## A Slow Burning Fire

The Rise of the New Art Practice in Yugoslavia

**Marko Ilić**

This first comprehensive study of the former Yugoslavia's alternative art scene tells the origin stories of some of the most significant artists of the late twentieth century. In Yugoslavia from the late 1960s to the late 1980s, state-supported Students' Cultural Centers became incubators for new art. This era's conceptual and performance art—known as Yugoslavia's New Art Practice—emerged from a network of diverse and densely interconnected art scenes that nurtured the early work of Marina Abramović, Sanja Iveković, Neue Slowenische Kunst (NSK), and others. In this book, Marko Ilić examines Yugoslavia's New Art Practice in light of the political upheavals of the 1980s.

Countering the usual binary of official versus unofficial art, Ilić shows that the Students' Cultural Centers were an expression of Yugoslavia's "third way" political and economic system, which was founded on workers' self-management. Ilić examines key actions, gestures, and propositions affiliated with the New Art Practice, including the conceptual and dematerialized art practices that emerged from Zagreb's Student Center Gallery, the struggle of Belgrade's Students' Cultural Center (where Abramović performed her career-defining *Rhythm 5*) to break into the international art scene, the pre-Žižek culture of Ljubljana, and Sarajevo's miraculous dokumenta, held in the midst of Yugoslavia's disintegration.

Ilić argues that the rise of Yugoslavia's alternative art scene both reflected on and adapted to the country's swiftly deteriorating social scene, responding to the political decentralization and economic liberalization of self-management's later phase. But of course, the future that the New Art Practice saw for Yugoslavia never came. Ilić's account is as much about hopes and ideals as it is about delusions, failed projects, and painful legacies.

**Marko Ilić** is an art historian based in London.

"Civil war tore Yugoslavia apart and shattered its vibrant and distinct art world. Marko Ilić's deeply researched and insightful study reconstructs it brilliantly."

—**David Crowley, Professor at the National College of Art and Design, Dublin, cocurator of *Notes from the Underground: Art and Alternative Music in Eastern Europe 1968–1994***

# Carrie Mae Weems

edited by Sarah Lewis

with Christine Garnier

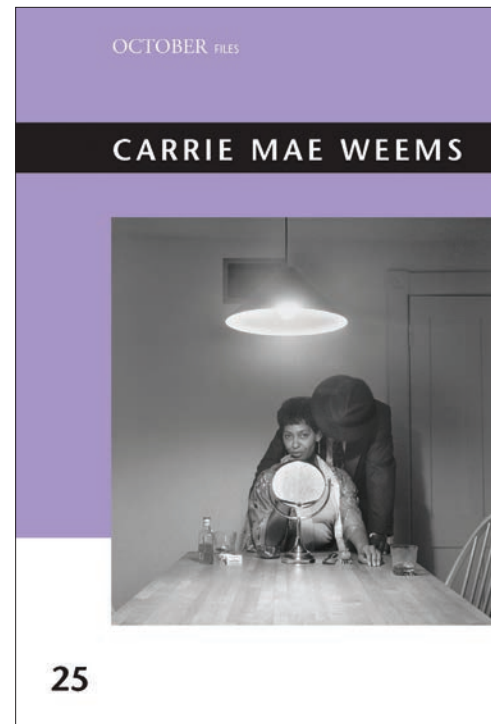
In this October Files volume, essays and interviews explore the work of the influential American artist Carrie Mae Weems—her invention and originality, the formal dimensions of her practice, and her importance to the history of photography and contemporary art. Since the 1980s, Weems (b. 1953) has challenged the status of the Black female body within the complex social fabric of American society. Her photographic work, film, and performance investigate spaces that range from the American kitchen table to the nineteenth-century world of historically Black Hampton University to the ancient landscapes of Rome.

These texts consider the underpinnings of photographic history in Weems's work, focusing on such early works as *The Kitchen Table* series; Weems's engagement with photographic archives, historical spaces, and the conceptual legacy of art history; and the relationship between her work and its institutional venues. The book makes clear not only the importance of Weems's work but also the necessity for an expanded set of concerns in contemporary art—one in which race does not restrict a discussion of aesthetics, as it has in the past, robbing Black artists of a full consideration of their work.

**Sarah Lewis** is Associate Professor of History of Art and Architecture and African and African American Studies at Harvard University. She is the author of a forthcoming book on photography, race, and vision within the Black Atlantic and the Black Sea. **Christine Garnier** is a PhD candidate in History of Art and Architecture at Harvard University.

## Contributors

Dawoud Bey, Jennifer Blessing, Kimberly Juanita Brown, Huey Copeland, Erina Duganne, Kimberly Drew, Coco Fusco, Thelma Golden, Katori Hall, Robin Kelsey, Thomas J. Lax, Sarah Lewis, Jeremy McCarter, Yxta Maya Murray, José Rivera, Gwendolyn DuBois Shaw, Salamishah Tillet, Deborah Willis



**Essays and interviews explore the work of Carrie Mae Weems and its place in the history of photography, African American art, and contemporary art.**

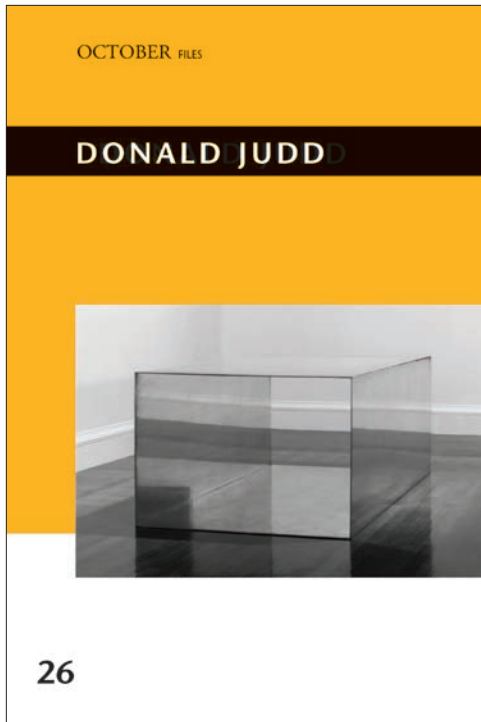
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**October Files**





**Artists, architects,  
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curators explore the work  
of Donald Judd as both artist  
and critic in essays spanning  
all of Judd's career.**

February  
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**October Files**

## Donald Judd

edited by Annie Ochmanek and Alex Kitnick

Donald Judd (1928–1994) was one of the most influential American artists of the postwar era. Beginning in the 1960s, he developed new ideas about art—in both his works and writings—that challenged many of modernism’s core tenets by resisting the categories of painting and sculpture. Judd described this work as “specific objects.” Critics labeled it minimalism. Perhaps because Judd’s own writings provide a discursive framework for his project, some of the monographic essays on his art are not widely known. This volume collects critical and scholarly writings on Judd, examining his work as both artist and critic.

Spanning all periods of Judd’s career, the essays gathered in this volume explore questions of abstraction, phenomenology, political engagement, labor, urban planning, and conservation. Written by a range of artists, architects, art historians, critics, and curators, these texts make clear Judd’s relevance for a wide array of fields and disciplines, and situate him as a pivotal figure in contemporary art. They include an early consideration of Judd’s work by Robert Smithson, a text on Judd’s later works by curator Lynne Cooke, two essays by the art historian Rosalind Krauss, and an appraisal of Judd’s writings by the artist Mel Bochner.

**Annie Ochmanek** is a PhD candidate at Columbia University and former Curatorial Assistant at the Museum of Modern Art, where she worked on the 2020 Judd retrospective.

**Alex Kitnick** is Assistant Professor of Art History and Visual Culture at Bard College and the editor of a previous October Files volume, *Dan Graham* (MIT Press).

### Contributors

Elizabeth C. Baker, Karl Beveridge, Mel Bochner, Yve-Alain Bois, Ian Burn, Lynne Cooke, Rosalind E. Krauss, Michael Meredith, Joshua Shannon, Robert Slifkin, Robert Smithson, Ann Temkin, Brian Walls

## Cycling for Sustainable Cities

edited by Ralph Buehler and John Pucher

Cycling is the most sustainable means of urban travel, feasible for most short- and medium-distance trips and for many practical purposes—commuting to and from work and school, shopping, visiting friends—as well as for recreation and exercise. Cycling promotes physical, social, and mental health, helps reduce car use, enhances mobility and independence, and is economical for both public and personal budgets. Cycling should be made feasible for everyone and not limited to especially fit, daring, well-trained cyclists riding expensive bicycles. *Cycling for Sustainable Cities* shows how to make city cycling safe, practical, and convenient for all ages and abilities.

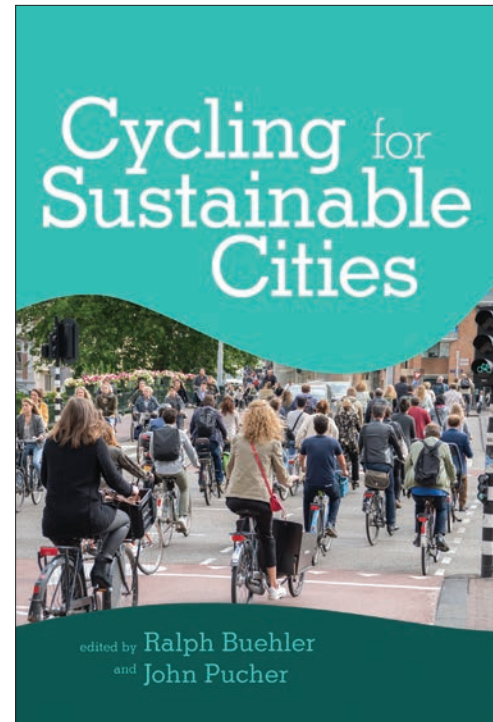
After discussing the latest cycling trends and policies around the world, contributors consider specific aspects of cycling. They examine such topics as health benefits; cycling facilities, including traffic-protected bike lanes; cycling incentives; the needs and preferences of women, children, and older adults; and equity and social justice. Expanding on the earlier book, *City Cycling*, they explore cycling developments in Asia and Latin America and analyze cycling evolution and innovations in New York, London, Paris, Amsterdam, Copenhagen, Portland (Oregon), and Sevilla. Taken together, the chapters show that successful promotion of cycling depends on a coordinated package of mutually supportive infrastructure, programs, and policies.

**Ralph Buehler** is Professor and Chair of Urban Affairs and Planning in the School of Public and International Affairs at Virginia Tech's Research Center in Arlington, Virginia.

**John Pucher** is Professor Emeritus in the Urban Planning and Policy Development Program at Rutgers University's Edward J. Bloustein School of Planning and Public Policy. Buehler and Pucher are coeditors of *City Cycling* (MIT Press).

### Contributors

Adrian Bauman, Tim Blumenthal, Peter Bourke, Marco te Brömmelstroet, Ralph Buehler, Fiona Campbell, Rong Cao, Chris Cherry, Andy Clarke, Jennifer Conroy, Billie Giles-Corti, Emmanuel de Lanversin, Rune Elvik, Bernhard Ensink, Elliot Fishman, Peter G. Furth, Yuan Gao, Jan Garrard, Roger Geller, Aaron Golub, Andrea Hamre, Susan Handy, Eva Heinen, Till Koglin, Eleftheria Kontou, Ricardo Marqués, Karel Martens, Noreen C. McDonald, Ken McLeod, Kazuki Nakamura, Bill Nesper, Carlos-Felipe Pardo, John Parkin, Zhong-Ren Peng, Jean-François Pronovost, John Pucher, Lina Quiñones, Chris Rissel, Daniel A. Rodriguez, Susan A. Shaheen, Dave Snyder, Robin Stallings, Geetam Tiwari, Bert van Wee, Meghan Winters



**How to make city cycling—  
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and convenient for all.**

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science fiction | cultural studies

## Science Fiction

Sherryl Vint

**How science fiction has been a tool for understanding and living through rapid technological change.**

The world today seems to be slipping into a science fiction future. We have phones that speak to us, cars that drive themselves, and connected devices that communicate with each other in languages we don't understand. Depending on the news of the day, we inhabit either a technological utopia or a *Brave New World* nightmare. This volume in the MIT Press Essential Knowledge series surveys the uses of science fiction. It focuses on what is at the core of all definitions of science fiction: a vision of the world made otherwise and what possibilities might flow from such otherness.

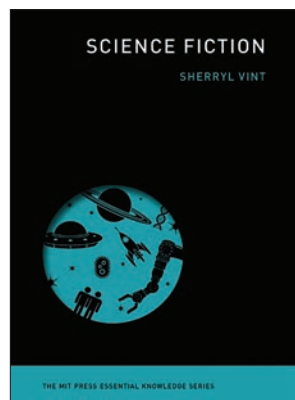
After a brief overview of the genre's origins, science fiction authority Sherryl Vint considers how and why contemporary science fiction is changing. She explores anxieties in current science fiction over such key sites of technological innovation as artificial intelligence, genomic research and commodified biomedicine, and climate change. Connecting science fiction with speculative design and futurology in the corporate world, she argues that science fiction does not merely reflect these trends, but has a role in directing them.

**Sherryl Vint** is Professor of Media and Cultural Studies and of English at the University of California, Riverside. She is the author of *Bodies of Tomorrow*, *Animal Alterity*, and *Science Fiction: A Guide for the Perplexed*, coauthor of the *Routledge Concise History of Science Fiction*, and coeditor of *The Routledge Companion to Science Fiction*.

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## Annotation

Remi Kalir and Antero Garcia

**An introduction to annotation as a genre—a synthesis of reading, thinking, writing, and communication—and its significance in scholarship and everyday life.**

Annotation—the addition of a note to a text—is an everyday and social activity that provides information, shares commentary, sparks conversation, expresses power, and aids learning. It helps mediate the relationship between reading and writing. This volume in the MIT Press Essential Knowledge series offers an introduction to annotation and its literary, scholarly, civic, and everyday significance across historical and contemporary contexts. It approaches annotation as a genre—a synthesis of reading, thinking, writing, and communication—and offers examples of annotation that range from medieval rubrication and early book culture to data labeling and online reviews.

After introducing such ideas as paratext, multimodality, and intertextuality, the authors discuss the affordances and types of annotation in a variety of contexts. Annotation that provides information, for example, can be a time stamp on a text message or a footnote to a text; annotation that shares commentary can be praise (or the opposite) on Rate My Professors or the texts in the Hebrew Talmud; and annotation that aids learning can be added by experts for students or by students for their peers. Far from being an arcane practice of scholars, annotation allows readers to respond to their texts, interact with various forms of media, and make meaning with and from this everyday activity.

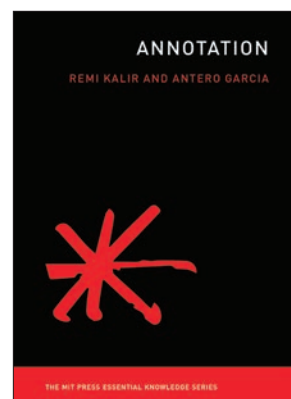
**Remi Kalir** is Assistant Professor of Learning Design and Technology at the University of Colorado Denver School of Education and Human Development.

**Antero Garcia** is Assistant Professor of Education at Stanford University's Graduate School of Education. He is the author of *Good Reception: Teens, Teachers, and Mobile Media in a Los Angeles High School* (MIT Press).

April | 5 x 7, 232 pp.

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social science | politics

## Hate Speech

Caitlin Ring Carlson

**An investigation of hate speech: legal approaches, current controversies, and suggestions for limiting its spread.**

Hate speech can happen anywhere—in Charlottesville, Virginia, where young men in khakis shouted, “Jews will not replace us”;

in Myanmar, where the military used Facebook to target the Muslim Rohingya; in Cape-town, South Africa, where a pastor called on ISIS to rid South Africa of the “homosexual curse.” In person or online, people wield language to attack others for their race, national origin, religion, gender, gender identity, sexual orientation, age, disability, or other aspects of identity. This volume in the MIT Press Essential Knowledge series examines hate speech:

what it is, and is not; its history; and efforts to address it.

Author Caitlin Ring Carlson, an expert in communication and mass media, defines hate speech as any expression—spoken words, images, or symbols—that seeks to malign people for their immutable characteristics. Hate speech is not synonymous with offensive speech—saying that you do not like someone does not constitute hate speech—or hate crimes, which are criminal acts motivated by prejudice. Hate speech traumatizes victims and degrades societies that condone it. Carlson investigates legal approaches taken by the EU, Brazil, Canada, Germany, Japan, South Africa, and the United States, with a detailed discussion of how the U.S. addresses, and in most cases, allows, hate speech. She explores recent hate speech controversies, and suggests ways that governments, colleges, media organizations, and other organizations can limit the spread of hate speech.

**Caitlin Ring Carlson** is Associate Professor of Communication at Seattle University.

April | 5 x 7, 200 pp. | 7 illus.

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neuroscience

## Ketamine

Bita Moghaddam

**The emergence of ketamine—previously known as a combat anesthetic and club drug—as a treatment for depression.**

Ketamine, approved in 2019 by the Food and Drug Administration for the treatment of depression, has been touted by

scientists and media reports as something approaching a miracle cure. This volume in the MIT Press Essential Knowledge series chronicles the ascent of a drug that has been around for fifty years—in previous incarnations, a Vietnam-era combat anesthetic and a popular club drug—that has now been reinvented as a treatment for depression. Bita Moghaddam, a leading researcher in neuropharmacology, explains the scientific

history and the biology of ketamine, its clinical use, and its recently discovered antidepressant properties, for the nonspecialist reader.

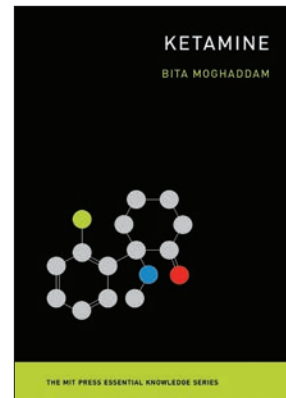
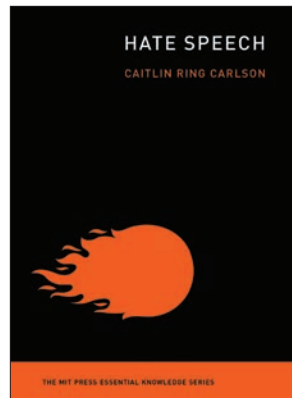
Despite the excitement, Moghaddam points out, concerns exist over the unknown long-term effects of the drug; the FDA assigned ketamine a “black box” warning—its most serious safety warning. Moghaddam describes the discovery of ketamine, how it was tested on humans, and how it is used as an anesthetic, club drug, and research tool. She explains ketamine’s effects on brain receptors and neurotransmitters; its emergence as an antidepressant; and theories about its antidepressant properties. Finally, she reviews safety concerns and considers future directions for research, discussing whether what we learn about ketamine will change the way we understand and treat psychiatric disorders.

**Bita Moghaddam** is a leading researcher in the field of neuropsychopharmacology. She is Ruth Matarazzo Professor of Behavioral Neuroscience at Oregon Health and Science University in Portland.

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science | medicine

## When Blood Breaks Down

Life Lessons from Leukemia

**Mikkael A. Sekeres**

When you are told that you have leukemia, your world stops. In *When Blood Breaks Down*, Mikkael Sekeres, a leading cancer specialist, takes readers on the journey that patient and doctor travel together. Sekeres, who writes regularly for the Well section of the *New York Times*, tells the compelling stories of three people who receive diagnoses of adult leukemia within hours of each other: Joan, a 48-year-old surgical nurse, a caregiver who becomes a patient; David, a 68-year-old former factory worker who bows to his family's wishes and pursues the most aggressive treatment; and Sarah, a 36-year-old pregnant woman who must decide whether to undergo chemotherapy and put her fetus at risk.

We join the intimacy of the conversations Sekeres has with his patients as he explores leukemia in its different forms and the development of drugs to treat it. The lessons to be learned from leukemia, Sekeres shows, are not merely medical; they teach us about courage and grace and defying the odds.

**Mikkael A. Sekeres, MD**, is Director of the Leukemia Program at the Cleveland Clinic, where he is also Professor of Medicine and Vice Chair for Clinical Research at the Taussig Cancer Institute.

"A quiet chronicle of life with and beyond leukemia, and sometimes life's end."

— *Washington Post*

"A fascinating debut. . . This is a powerful look at a disease that forces patients to make decisions that no person should ever have to make."

— *Publishers Weekly*



**Mikkael A. Sekeres**

"In this powerful and wonderfully written book that both educates and moves you, Sekeres writes with the authority and compassion that comes with decades of practice." —SIDDHARTHA MUKHERJEE, Pulitzer prize winning author of *The Emperor of All Maladies: A Biography of Cancer*

# WHEN BLOOD BREAKS DOWN

LIFE LESSONS  
FROM LEUKEMIA

MIKKAEL A. SEKERES

Essayist for the *New York Times*

**A leading cancer specialist tells the compelling stories of three adult leukemia patients and their treatments, the disease itself, and the drugs developed to treat it.**

April  
5 3/8 x 8, 328 pp.  
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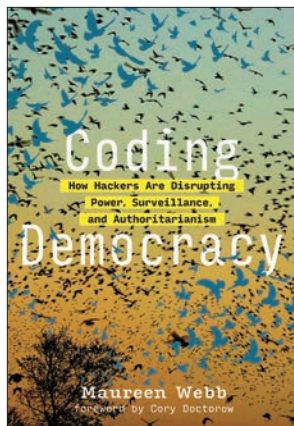
## Coding Democracy

How Hackers Are Disrupting Power, Surveillance, and Authoritarianism

**Maureen Webb**

foreword by Cory Doctorow

Hackers have a bad reputation, as shady deployers of bots and destroyers of infrastructure. In *Coding Democracy*, Maureen Webb argues that hackers can be vital disruptors. Hacking is becoming a practice, an ethos, and a metaphor for a new wave of activism in which ordinary citizens are inventing new forms of distributed, decentralized democracy for a digital era. Confronted with concentrations of power, mass surveillance, and authoritarianism enabled by new technology, the hacking movement is trying to “build out” democracy into cyberspace.



Webb describes an amazing array of hacker experiments that could dramatically change the current political economy. These ambitious hacks aim to displace such tech monoliths as Facebook and Amazon; enable worker cooperatives to kill platforms like Uber; give people control over their data; automate trust; and provide citizens a real say in governance, along with capacity to reach consensus. *Coding Democracy* provides the tools for an urgently needed upgrade of democracy in the digital era.

**Maureen Webb** is a labor lawyer and human rights activist. She is the author of *Illusions of Security: Global Surveillance and Democracy in the Post-9/11 World* and has taught national security law as an Adjunct Professor at the University of British Columbia.

“A powerful case for the fact that technology as we know it—omnipresent, flawed, world-improving—has become so entrenched and static that it really does need the hackers worrying the edges of its firewalls.”

—**WIRED**, 13 Must-Read Books for Spring 2020

March | 6 x 9, 416 pp.

**US \$17.95T/\$23.95 CAN paper**

978-0-262-54228-9

cloth

978-0-262-04355-7

business | psychology

## The Power of Experiments

Decision Making in a Data-Driven World

**Michael Luca and Max H. Bazerman**

Have you logged into Facebook recently? Chosen a movie on Netflix? If so, you’ve probably been an unwitting participant in a variety of experiments—also known as randomized controlled trials—designed to test the impact of different online experiences. In this book, Michael Luca and Max Bazerman explain the importance of experiments for decision making in a data-driven world. They describe the central role experiments play in the tech sector, drawing lessons and best practices from the experiences of such companies as StubHub, Alibaba, and Uber.

Successful experiments can save companies money—eBay, for example, discovered how to cut \$50 million from its yearly advertising budget—or bring to light something previously ignored, as when Airbnb was forced to confront rampant discrimination by its hosts. Moving beyond tech, Luca and Bazerman consider experimenting for the social good—different ways that governments are using experiments to influence or “nudge” behavior ranging from voter apathy to school absenteeism.

**Michael Luca** is Lee J. Styslinger III Associate Professor of Business Administration at Harvard Business School. His writing has appeared in publications including the *Atlantic*, *Wall Street Journal*, *Harvard Business Review*, and *Slate*.

**Max H. Bazerman** is Jesse Isidor Straus Professor of Business Administration at Harvard Business School. He is the author of *The Power of Noticing* and the coauthor of *Blind Spots*, *Negotiation Genius*, and other books.

“Physics, chemistry, and medicine have had their revolution. But now, driven by experimentation, a further transformation is in the air.”

—**New Yorker**

“Luca and Bazerman balance their passion for experiments with a recognition of its limits.” —**Wall Street Journal**

March | 6 x 9, 232 pp. | 4 illus.

**US \$19.95T/\$25.95 CAN paper**

978-0-262-54227-2

cloth

978-0-262-04387-8

math

## Sleight of Mind

75 Ingenious Paradoxes in Mathematics, Physics, and Philosophy

**Matt Cook**

Paradox is a sophisticated kind of magic trick. A magician's purpose is to create the appearance of impossibility, to pull a rabbit from an empty hat. Yet paradox works in the abstract, with words and concepts and symbols, to create the illusion of contradiction. In *Sleight of Mind*, Matt Cook and a few collaborators dive deeply into more than 75 paradoxes in mathematics, physics, philosophy, and the social sciences. Cook helps readers discover the meaning of knowledge and the proper formation of concepts—and how reason can dispel the illusion of contradiction. Readers will travel from

Ancient Greece to cutting-edge laboratories, encounter infinity and its different sizes, and discover mathematical impossibilities inherent in elections. They will tackle conundrums in probability, induction, geometry, and game theory; explore the strange quantum world—and much more.

**Matt Cook**, PhD, is an economist, bestselling author, and magician. Among his works are the thriller novel *Sabotage* and entrepreneurial success book *The Startup Star*, which he wrote at Stanford University. Trained at the world-famous Magic Castle, he has performed across the globe and enjoys infusing talks and lectures with sleight of hand. Learn more at [www.visitmatt.com](http://www.visitmatt.com).

"In this fun, brain-twisting book, Matt Cook and collaborators examine an impressive list of apparently self-contradictory scenarios, only to explain away the puzzles using logic and science."

—**Sean Carroll, theoretical physicist and *New York Times* bestselling author of *Something Deeply Hidden***

April | 6 x 9, 368 pp. | 79 illus.

**US \$24.95T/\$33.95 CAN paper**

978-0-262-54229-6

cloth

978-0-262-04346-5

game studies

## The Aesthetic of Play

**Brian Upton**

The impulse toward play is not only pre-cultural but pre-human; zoologists have identified play behaviors in turtles



and in chimpanzees. Games have existed since antiquity; 5,000-year-old board games have been recovered from Egyptian tombs. And yet we still lack a critical language for thinking about play. Game designers are better at answering small questions ("Why is this battle boring?") than big ones ("What does this game mean?"). In this book, the game designer Brian Upton analyzes the experience of play—how playful activities unfold from moment to moment

and how the rules we adopt constrain that unfolding.

Drawing on games that range from *Monopoly* to *Dungeons & Dragons* to *Guitar Hero*, Upton develops a framework for understanding play, introducing a set of critical tools that can help us analyze games and game designs and identify ways in which they succeed or fail.

**Brian Upton** co-founded Red Storm Entertainment, where he was lead designer of the popular games *Rainbow Six* and *Ghost Recon*. He is now a "script doctor for games" at Sony's Santa Monica Studio.

"This book blasts through the sterile dogmas of game studies with a model of play that unites stories, games, and criticism into diverse unity."

—**Chris Bateman, Ph.D., game designer, philosopher, and author**

"Upton's book is a rarity in game design and development texts—it provides a new way of understanding games both analog and digital that is innovative, tangible, and incredibly valuable for an evolving medium."

—**Brenda Romero, game designer, Romero Games**

February | 6 x 9, 36 pp. | 56 illus.

**US \$25.95T/\$34.95 CAN paper**

978-0-262-54263-0

cloth

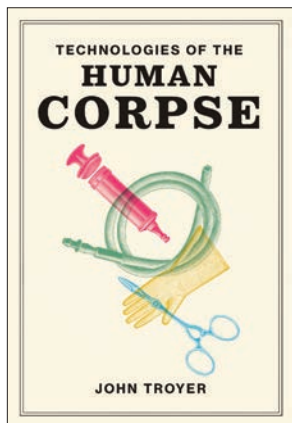
978-0-262-02851-6



## Technologies of the Human Corpse

John Troyer

Death and the dead body have never been more alive in the public imagination. In this unique work, John Troyer examines



the relationship of the dead body with technology, both material and conceptual: the physical machines, political concepts, and sovereign institutions that humans use to classify, organize, repurpose, and transform the human corpse. Troyer explains how technologies of the nineteenth century, including embalming and photography, created our image of a dead body as quasi-atemporal, existing outside biological limits formerly enforced by decomposition. He describes

the “Happy Death Movement” of the 1970s; the politics of the HIV/AIDS corpse and the productive potential of the dead body; the provocations of the *Body Worlds* exhibits and their use of preserved dead bodies; and the black market in human body parts. The consequences of total control over death and the dead body, Troyer argues, are not liberation but the abandonment of *Homo sapiens* as a concept and a species.

**John Troyer** is Director of the Centre for Death and Society and Associate Professor in the Department of Social and Policy Sciences at the University of Bath. He grew up in the American funeral industry.

“Troyer charts the unexpectedly complex history of the dead body, and the various technical advances that have transformed our relationship with it.”

—*Financial Times*

“Troyer is one of our greatest thinkers on the ways technology and capitalism continue to transform the idea of the human corpse.”

—**Caitlin Doughty, mortician and bestselling author of *Smoke Gets in Your Eyes***

March | 5 3/8 x 8, 272 pp. | 12 illus.

**US \$17.95T/\$23.95 CAN paper**

978-0-262-54231-9

cloth

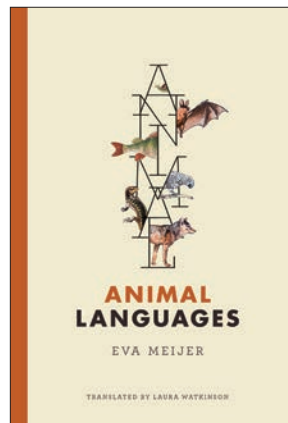
978-0-262-04381-6

## Animal Languages

Eva Meijer

translated by Laura Watkinson

Is language what sets humans apart from other animals, as many have argued? Or do animals speak in their own languages,



to each other and to us? In *Animal Languages*, Eva Meijer explores the latter possibility. Meijer tells us about Alex, the gray parrot who knew more than one hundred words, and Chaser, the border collie who had a talent for grammar. She introduces us to Washoe, the chimpanzee who grew up with humans and learned sign language; Kosik, the elephant who spoke to humans in human language and to his female elephant companion in elephant language; and Noc, the beluga

whale who mimicked human speech. She tells us that dogs are able to interpret the meaning of other dogs' growls and that marmosets take turns in conversations and teach this skill to their offspring.

But beyond all these interesting details, Meijer makes a more profound observation. Talking with animals forces us to challenge the hierarchy of humans and other animals, and suggests a new way of thinking about language. *Animal Languages* shows us that language is broader and richer than we imagined, and that meaningful expression does not require human words.

**Eva Meijer** is an author, artist, singer, songwriter, and philosopher. She is author of *Bird Cottage*, a novel.

“Meijer reveals fascinating research into how animals communicate.”

—*Guardian*

“Ambitious.”

—*New York Review of Books*

February | 5 3/8 x 8, 288 pp.

**US \$17.95T paper**

978-0-262-54230-2

cloth

978-0-262-04403-5

**For Sale in US and Philippines only**

## AI for Good

edited by Daron Acemoglu

**A look at how new technologies can be put to use in the creation of a more just society.**

Artificial Intelligence (AI) is not likely to make humans redundant. Nor will it create superintelligence anytime soon. But it will make huge advances in the next two decades, revolutionizing medicine, entertainment, and transport, transforming jobs and markets, and vastly increasing the amount of information that governments and companies have about individuals. *AI for Good* leads off with economist and best-selling author Daron Acemoglu, who argues that there are reasons to be concerned about these developments. AI research today pays too much attention to the technological hurdles ahead,

without enough attention to its disruptive effects on the fabric of society: displacing workers while failing to create new opportunities for them and threatening to undermine democratic governance itself.

Yet the direction of AI development is not preordained. Acemoglu argues for AI's potential to create shared prosperity and bolster democratic freedoms. But directing it to that task will take great effort. It will require new funding and regulation, new norms and priorities for developers themselves, and regulations of new technologies and their applications.

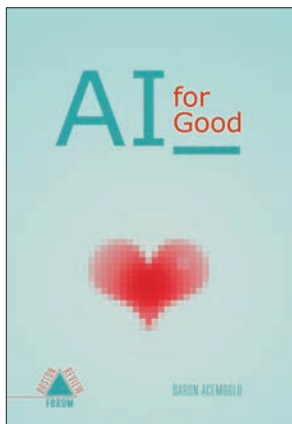
At the intersection of technology and economic justice, this book brings together experts—economists, legal scholars, policy makers, and developers—to debate these challenges and consider what steps tech companies can take to ensure the advancement of AI does not further diminish the economic prospects of the most vulnerable population groups.

**Daron Acemoglu** is Charles P. Kindleberger Professor of Applied Economics at MIT and a Research Associate of the National Bureau of Economic Research. He is coauthor of *Why Nations Fail* and *The Narrow Corridor*.

June | 6 x 9, 192 pp.

**US \$19.95T/\$25.95 CAN paper**  
978-1-946511-62-1

**Distributed for Boston Review**



## Ancestors

edited by Ed Pavlič and Evie Shockley

**Noted novelists, poets, and essayists, including Samuel R. Delany, Min Jin Lee, Joy Harjo, and Zadie Smith, consider how we are shaped by the past.**

It is rare now for people to stay where they were raised, and when we encounter one another—whether in person or online—it is usually in contexts that obscure if not outright hide details about our past. But even in moments of pure self-invention, we are always shaped by the past. In *Ancestors*, some of today's most imaginative writers—including science fiction master Samuel R. Delany, US Poet Laureate Joy Harjo, and novelist Zadie Smith—consider what it means to be made and fashioned by others.

Are we shaped by grandparents, family, the deep past, political forebears, inherited social and economic circumstances? Can we choose our family, or is blood always thicker? And looking forward, what will it mean to be ancestors ourselves, and how will our descendants remember us?

**Ed Pavlič** is the author of *Live at the Bitter End; Who Can Afford to Improvise? James Baldwin and Black Music, the Lyric and the Listener* and other books. He is Distinguished Research Professor in the English Department and in the Institute for African American Studies at the University of Georgia. **Evie Shockley** is an American poet and author of *the new black* and *semiautomatic*, a finalist for the 2018 Pulitzer Prize in Poetry. She is Professor of English at Rutgers University.

### Contributors include

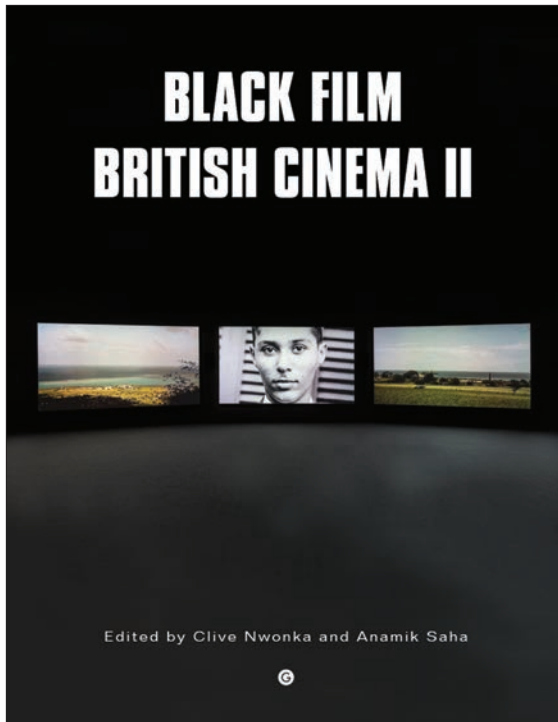
Samuel R. Delany, Tananarive Due, Andrea Lawlor, Min Jin Lee, Joy Harjo, Jericho Brown, Brian Teare, Teju Cole, Domenica Ruta, Zadie Smith, Yvonne Adhiambo Owuor, Daisy Hernández, Rita Indiana, Ibi Zoboi, Edwidge Danticat

March | 6 x 9, 192 pp.

**US \$19.95T/\$25.95 CAN paper**  
978-1-946511-55-3

**Distributed for Boston Review**





**The politics of race in British screen culture, over the last thirty years, considered in the context of institutional, textual, cultural, and political shifts.**

February  
6 x 9, 256 pp.  
20 illus.

**US \$30.00 / \$40.00 CAN paper**  
978-1-912685-63-9

**Distributed for Goldsmiths Press**

*film | race studies*

## Black Film British Cinema II

edited by Clive Nwonka and Anamik Saha

This book considers the politics of race in British screen culture over the last thirty years, addressing the institutional, textual, cultural, and political shifts that have occurred during this period. An edited collection of essays by Bidisha, Ashley Clark, Shelley Cobb, James Harvey, Melanie Hoyes, Maryam Jameela, Kara Keeling, Oslem Koskal, Rabz Lansiquot, Sarita Malik, Richard Martin, So Mayer, Alessandra Raengo, Richard T. Rodríguez, Tess S. Skadegård Thorsen, and Natalie Wreyford, it offers a diverse range of responses from emerging and established scholars and practitioners. They explore these topics through the optics of film, TV, and moving image, from the perspectives of media and communications, sociology, politics, and cultural studies.

**Clive Nwonka** is a Research Fellow in Film Studies at the London School of Economics and Political Science. **Anamik Saha** is a Lecturer in the Department of Media and Communications and Co-convenor of the MA in Race, Media, and Social Justice at Goldsmiths, University of London.

### Contributors

Bidisha, Ashley Clark, Shelley Cobb, James Harvey, Melanie Hoyes, Maryam Jameela, Kara Keeling, Oslem Koskal, Rabz Lansiquot, Sarita Malik, Richard Martin, So Mayer, Alessandra Raengo, Richard T. Rodríguez, Tess S. Skadegård Thorsen, Natalie Wreyford

film

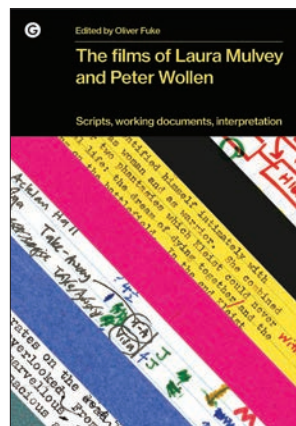
## The Films of Laura Mulvey and Peter Wollen

Scripts, Working Documents, Interpretation

edited by Oliver Fuke

**An examination of Laura Mulvey and Peter Wollen's independent and collaborative films and their intersections with feminism, film theory, and psychoanalysis.**

This book examines renowned theorists Laura Mulvey and Peter Wollen's independent and collaborative films, focusing how they intersect with feminism, film theory, and psychoanalysis.



The aim of the volume is broadly threefold: to encourage further study of Mulvey and Wollen's contributions to the theory and practice of experimental film; to draw attention to the value of their scripts as written texts; and to challenge the common misconception that their individual and collaborative filmmaking practices end at the close of the 1970s. The historical overview provided by Mulvey

in her introduction underscores the sense that their individual and collaborative films were the result of sustained attempts to make political films under rapidly changing economic and political conditions.

**Oliver Fuke** is an independent researcher. His projects include *Laura Mulvey and Peter Wollen: Beyond the Scorched Earth of Counter-Cinema* and *Yvonne Rainer: The Choreography of Film and Art at the Frontier of Film Theory*.

April | 6 x 9 1/2, 304 pp. | 22 illus.

**US \$36.95T/\$49.95 CAN cloth**  
978-1-912685-71-4

Distributed for Goldsmiths Press

sound studies

## Teklife, Ghettoville, Eski

The Sonic Ecologies of Black Music in the Early 21st Century

Dhanveer Singh Brar

**How Black electronic dance music makes it possible to reorganize life within the contemporary city.**

*Teklife, Ghettoville, Eski* argues that Black electronic dance music produces sonic ecologies of Blackness that expose and reorder the



contemporary racialization of the urban—ecologies that can never be reduced simply to their geographical and racial context. Dhanveer Singh Brar makes the case for Black electronic dance music as the cutting-edge aesthetic project of the diaspora, which, because of the music's class character, makes it possible to reorganize life within the contemporary city.

Closely analyzing the Footwork scene in South and West Chicago, the Grime scene in East London, and the output

of the South London producer Actress, Brar foregrounds the sonic specificity of 12" records, EPs, albums, radio broadcasts, and recorded performances to make the case that Footwork, Grime, and Actress dissolve racialized spatial constraints that are thought to surround Black social life.

Pushing the critical debates concerning the phonic materiality of Blackness, undercommons, and aesthetic sociality in new directions, Brar rethinks these concepts through concrete examples of contemporary Black electronic dance music production that allows for a theorization of the way Footwork, Grime, and Actress have—through their experiments in Blackness—generated genuine alternatives to the functioning of the city under financialized racial capitalism.

**Dhanveer Singh Brar** has published in journals such as *Social Text*, *Darkmatter*, and *Cesura// Acceso* and is a founding member of the London-based Black Study Group. He is Lecturer in Visual Cultures at Goldsmiths, University of London.

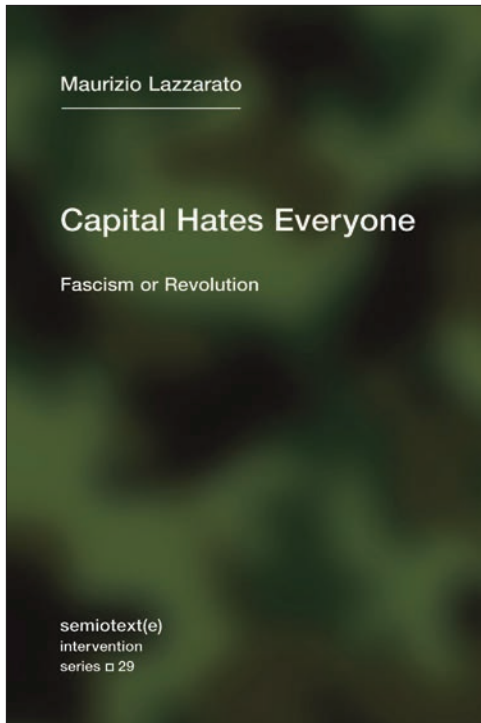
April | 6 x 9, 192 pp.

**US \$29.95T/\$39.95 CAN cloth**  
978-1-912685-79-0

Sonics Series

Distributed for Goldsmiths Press





**Why we must reject the illusory consolations of technology and choose revolution over fascism.**

March  
4 1/2 x 7, 200 pp.

**US \$15.95T/\$21.95 CAN paper**  
978-1-63590-138-2

**Intervention Series**

**Distributed for Semiotext(e)**

*political theory | philosophy*

## Capital Hates Everyone

Fascism or Revolution

**Maurizio Lazzarato**

translated by Robert Hurley

We are living in apocalyptic times. In *Capital Hates Everyone*, famed sociologist Maurizio Lazzarato points to a stark choice emerging from the magma of today's world events: fascism or revolution. Fascism now drives the course of democracies as they grow less and less liberal and increasingly subject to the law of capital. Since the 1970s, Lazzarato writes, capital has entered a logic of war. It has become, by the power conferred on it by financialization, a political force intent on destruction. Lazzarato urges us to reject the illusory consolations of a technology-abetted "new" kind of capitalism and choose revolution over fascism.

This offensive was made possible by the cycle of revolutions coming to an end. But while it was unfolding, critical thinking announced the suppression of social relations and the advent of a new capitalism, a milder one, more attentive to the comfort of workers. Today, the prophets of technology even boast of a solution to the climate crisis or an exit from capitalism by the very means of capital. In the face of these illusory consolations and the growing threat of fascism, Lazzarato argues it is urgent that we rediscover the meaning of strategic confrontations and the means of rebuilding a revolutionary war machine. Since capital hates everyone, everyone must hate capital.

**Maurizio Lazzarato** is a sociologist and philosopher in Paris. He is the author of *Governing by Debt* and *Signs and Machines: Capitalism and the Production of Subjectivity*, both published by Semiotext(e).

## Immunodemocracy

Capitalist Asphyxia

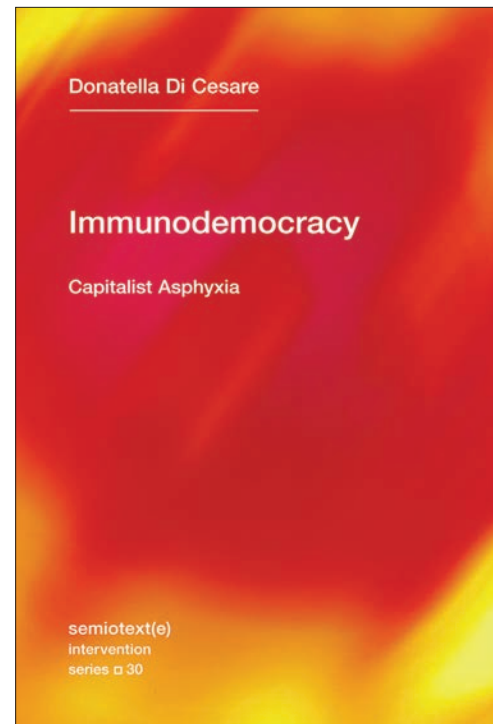
**Donatella Di Cesare**

translated by David Broder

*Immunodemocracy* offers a stimulating and profound portrayal of the epochal event that has already left its mark on the twenty-first century. Moving from the ecological question to the rule of experts, from the state of exception to immunitarian democracy, from rule by fear to the contagion of conspiracy theory, from forced distancing to digital control, Donatella Di Cesare examines how existence is already changing—and what its future political effects may be. In her own personal style, the author reconstructs the dramatic phases of what she calls “the breathing catastrophe.” Coronavirus is a sovereign virus that skirts its way around the walls of patriotism and the sovereignists’ imperious frontiers. And it reveals in all its terrible crudeness the immunitarian logic that excludes the weakest and hits the poorest.

The *cordon sanitaire* of disengagement risks expanding beyond all proportion. The disparity between the protected and the helpless—a challenge to any idea of justice—has never been so blatant. The virus has not introduced, but merely brought out into the open the ruthlessness of the capitalism that is now wrapping us in its devastating spiral, in its compulsive, asphyxial vortex. Is it our final warning? The violent global pandemic shows that it is impossible for us to survive if we don’t help each other. We will need to protect ourselves from protection and the specter of absolute immunization. When breathing can no longer be taken for granted, we need to rethink our way of living together.

**Donatella Di Cesare** teaches theoretical philosophy at the Sapienza University in Rome. One of the most significant voices on the Italian intellectual scene, she is an authoritative contributor to numerous newspapers, websites, and journals in Italy and elsewhere. Her books have been translated into eight languages.



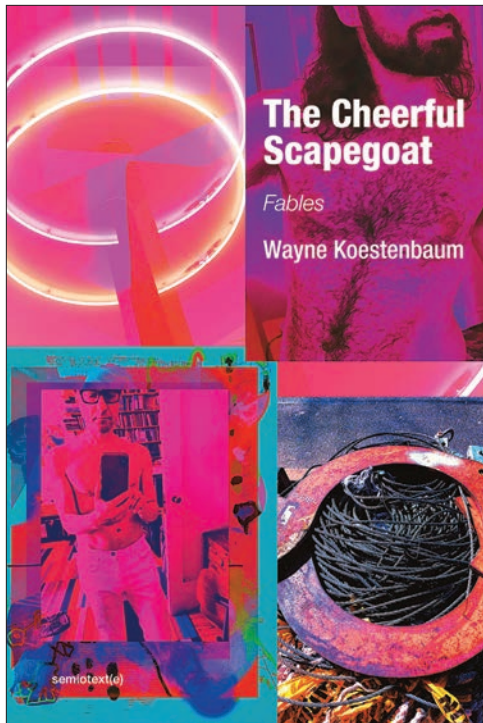
**A stimulating and profound portrayal of “the breathing catastrophe” that has already left its mark on the twenty-first century, and what needs to come after.**

April  
4 1/2 x 7, 120 pp.

**US \$15.95T/\$21.95 CAN paper**  
978-1-63590-148-1

**Intervention Series**

**Distributed for Semiotext(e)**



**Wayne Koestenbaum's  
first book of short fiction:  
a collection of whimsical,  
surreal, baroque, ribald, and  
heartbreaking fables.**

April  
5 3/8 x 8, 168 pp.

**US \$16.95T/\$22.95 CAN paper**  
978-1-63590-144-3

**Native Agents series**

**Distributed for Semiotext(e)**

*literature*

## The Cheerful Scapegoat

Fables

**Wayne Koestenbaum**

In his first book of short fiction—a collection of whimsical, surreal, baroque, ribald, and heartbreaking fables—Wayne Koestenbaum takes the gloom and melancholy of our own terrifying political moment and finds subversive solace by overturning the customary protocols of tale-telling. Characters and narrators wander into strange locales; the difference between action and thinking, between reality and dream, grows moot in a heightened yet burlesque manner. The activities in *The Cheerful Scapegoat* are a cross between a comedy of manners and a Sadean orgy. Language has its own desires: figures of speech carry an erotic charge that straddles the line between slapstick and vertigo. Punishment hangs over every conversation—but in the fable-world of *The Cheerful Scapegoat*, abjection comes with an undertaste of contentment. The tchotchkes of queer culture—codes and signifiers—get scrambled together and then blown up into an improbable soufflé.

Koestenbaum's fables travel in circles, slipping away from their original point and leading the reader to a paradisiacal suspension of fixed categories. Intensified sentences and curlicue narratives scheme together mesmerically to convince the reader to abandon old ways of thinking and to take on a commitment to the polymorphous, the wandering, the tangential. Koestenbaum's fables—emergency bulletins uttered in a perverse vernacular of syntactic pirouettes—alert us to the necessity of pushing language into new contortions of exactitude and ecstatic excess.

**Wayne Koestenbaum**—poet, critic, novelist, artist, performer—has published nineteen books, including *The Queen's Throat*, which was praised by Susan Sontag as “a brilliant book” and was a National Book Critics Circle Award finalist. Formerly Associate Professor of English at Yale and Visiting Professor in the Yale School of Art's Painting Department, he is Distinguished Professor of English, French, and Comparative Literature at the CUNY Graduate Center in New York City.

literature

## The Works of Guillaume Dustan

*In My Room; I'm Going Out Tonight; Stronger Than Me*

**Guillaume Dustan**

edited by Thomas Clerc

translated by Daniel Maroun

**Guillaume Dustan's first three novels, published in France between 1996 and 1998, describing the narrator's sexual odyssey through a Paris still haunted by AIDS.**

This volume collects a suite of three wildly entertaining and trailblazing short novels by the legendary French anti-assimilationist LGBTQ+ writer Guillaume Dustan. Published sequentially in France between 1996 and 1998, the three novels are exuberant and deliberately affectless accounts of the narrator's sexual odyssey through a Parisian club and bath scene still haunted by AIDS.

*In My Room* (1996) takes place almost entirely in the narrator's bedroom. The middle volume, *I'm Going Out Tonight* (1997), finds him venturing out onto the gay scene in one long night. Finally, in *Stronger Than Me* (1998), the narrator reflects on his early life, which coincided with the appearance and spread of the AIDS virus in France.

A close contemporary of Dennis Cooper, Brett Easton Ellis, Kevin Killian, and Gary Indiana, Dustan offers deadpan autofiction that is at once satirical and intimate, and completely contemporary.

**Guillaume Dustan** (1965–2005) worked as an administrative judge in France before turning to writing full-time. He is the author of eight books, including the award-winning novel *Nicholas Page*. He was posthumously awarded the Prix Sade in 2013.

May | 6 x 9, 368 pp.

**US \$17.95T/\$23.95 CAN paper**

978-1-63590-142-9

**Native Agents series**

**Distributed for Semiotext(e)**



literature

## Little Joy

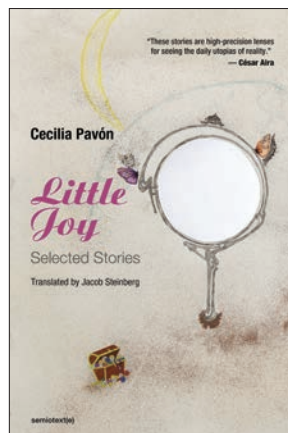
Selected Stories

**Cecilia Pavón**

translated by Jacob Steinberg

**The best of contemporary Argentine author Cecilia Pavón's short stories.**

Poet, writer, and translator Cecilia Pavón emerged in the late 1990s as one of the most prolific and central figures of the young



Argentine literary scene—the so-called “Generation of the 90s”: artists and writers whose aesthetics and politics were an earnest response to the disastrous impact of American-exported neoliberal policies and the resulting economic crisis of 2001. Their publications were fragile—Xeroxed, painted on cardboard—but their cultural impact, indelible. *Little Joy* collects the best of Pavón's short stories written between 1999 and 2020, originally published in three volumes in Spanish.

A cofounder of Buenos Aires's independent art space and publishing press Belleza y Felicidad—where a whole generation of soon-to-be-famous Argentine artists showed their work for the first time—Pavón pioneered the use of “unpoetic” and intimate content—her verses often lifted from text messages or chat rooms, her tone often impish, yet brutally sincere. Fellow Argentine poet Marina Yuszczuk once wrote, “Pavón's writing is filled with minor illuminations and conjectures; her syntax is the syntax of commas, ‘buts,’ and disjunctives, thoughts and impressions organized into a current that flows, branches off, and stands still.”

In 2015, Pavón's first volume of collected poems, *A Hotel with My Name*, was published in English. Contemporary writers in the United States, Australasia, and Europe discovered a deep affinity with her work. Pavón's protagonists, Ariana Reines noted, “are absolute women, guileless dreamers, saints in sneakers, on sidewalks, in jail, in Zara, on buses, in nightclubs, in bed.”

**Cecilia Pavón** is an Argentinian poet and writer.

April | 5 3/8 x 8, 224 pp.

**US \$17.95T/\$23.95 CAN paper**

978-1-63590-140-5

**Native Agents series**

**Distributed for Semiotext(e)**



design | film

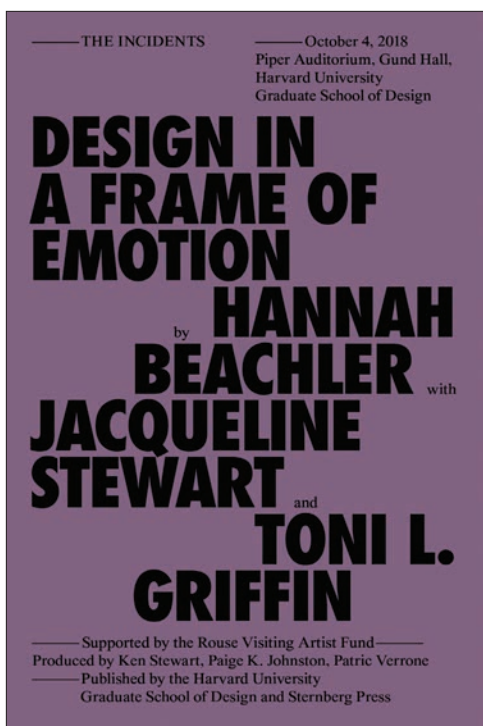
## Design in a Frame of Emotion

**Hannah Beachler**

with Jacqueline Stewart and Toni L. Griffin

Hannah Beachler is known as an award-winning production designer, but she tells an audience that she considers herself to be more of a story designer. As film stills and concept art from a few of those stories—*Moonlight*, *Miles Ahead*, *Creed*, *Lemonade*, and *Black Panther*—flash across a screen, Beachler engages in a meandering conversation with Jacqueline Stewart and Toni L. Griffin about set building and curation, urban design, location scouting, Afrofuturism, fictional histories, and Black feminist narratives, and describes her role: a designer behind on-screen tableaux that provide not only visual feasts of artistry and imagination, but also intimate spaces of emotion, humanity, and constructed memory.

**Hannah Beachler** made history as the first African American to be nominated for an Academy Award in Production Design, which she won in 2019 for her work on *Black Panther* (2018). She previously worked with director Ryan Coogler on *Creed* (2015) and *Fruitvale Station* (2013), and with director Barry Jenkins on the 2017 Academy Award winner for Best Picture, *Moonlight* (2016).



**A conversation about design,  
filmmaking, Afrofuturism,  
and other topics with Hannah  
Beachler, Academy Award-  
winning production designer of  
*Black Panther*.**

February  
4 1/2 x 7, 72 pp.  
25 color illus., 2 b&w illus.

**US \$18.00T/\$24.00 CAN paper**

978-3-95679-559-6

**The Incidents**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

## No Dandy, No Fun

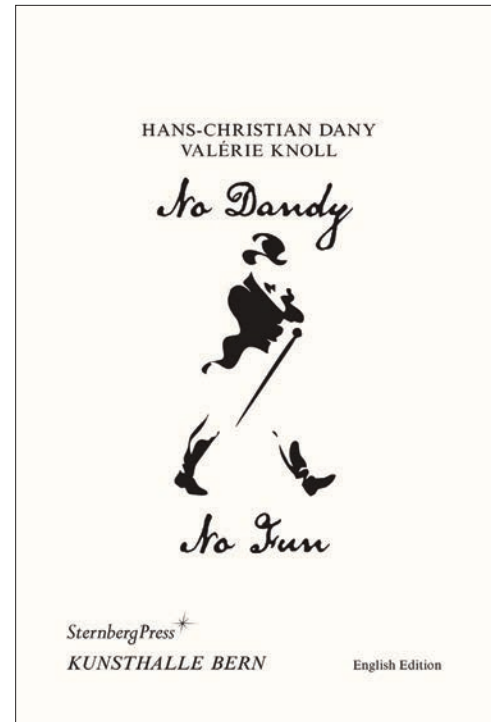
Hans-Christian Dany and Valérie Knoll

edited by Valérie Knoll and Hannes Loichinger

No sooner had the first Dandy entered the scene at the beginning of the nineteenth century than he was declared dead. This enigmatic yet immediately iconic figure would remake an entrance again and again in the decades that followed. Like an elegant harbinger, a Dandy arrives in times of crisis when societies are undergoing transformation. Like the hands of a clock, their silhouettes become messengers of change. But they are contours of change that carry no message. While everything is already in flames, they debate the shape of their shoes and sip oysters to combat their depression. For a long time, literature was their playing field. Marcel Duchamp transferred their attitude into the realm of art. It is there that Dandyism has to this day run rampant—but as if it were an embarrassing illness to which almost no one wants to admit, yet with which many people are tempted at least to flirt.

This essay traces out the masked ball of the Dandy and his manner of playing with its rules up to the present day, and produces a unique narrative from it—one that offers a view into the future.

**Hans-Christian Dany** is an artist, publicist, and curator. **Valérie Knoll** is the director of the Kunsthalle Bern.



**A cultural examination of the enigmatically iconic figure of the Dandy, both in history and as a figure for the future.**

May  
4 1/2 x 7, 128 pp.  
12 illus.

**US \$18.00T/\$24.00 CAN paper**  
978-3-95679-561-9

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



**Illustrated essays that consider emergent consistencies and overarching issues that defined the first decade of e-flux journal.**

February  
4 1/4 x 7, 120 pp.  
20 color illus., 75 b&w illus.  
**US \$24.00T/\$32.00 CAN paper**  
978-3-95679-567-1

**e-flux journal**  
Distributed for Sternberg Press  
Not for sale in the UK or Europe

art

## Wonderflux

A Decade of *e-flux Journal*

edited by *e-flux journal*

*Wonderflux* brings together a group of longtime contributors and graphic artists to collaborate on illustrated essays that develop a new pictorial language around some of the emergent consistencies and overarching issues that defined the first decade of *e-flux journal*. These pieces ask: What is a mirror for? How does time come to be? They introduce us to faceless people; shapeshifting, omnipresent eyes; workers and robots; and twentieth-century American food riots. They ask us to consider the relation between the mind and the speed of events. They demand we resist hope, refuse prophecy, and hasten the mortality of value.

### Contributors

Liam Gillick, Reza Negarastani & Keith Tilford, Keller Easterling & Meijia Xu, Hu Fang & Mojo Wang, Franco "Bifo" Berardi & Andrew Alexander, Elizabeth A. Povinelli & Clara Bessijelle Johansson, Raqs Media Collective & Freddy Carrasco, Martha Rosler & Josh Neufeld

Launched in 2008, *e-flux journal* is a monthly art publication featuring essays and contributions by some of the most engaged artists and thinkers working today.



Illustrations from *Wonderflux*.

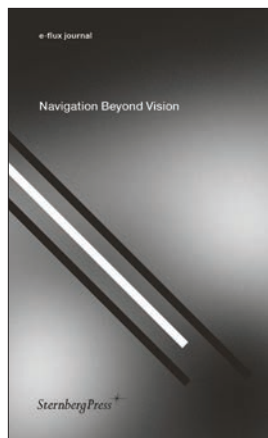
art

## Navigation Beyond Vision

edited by e-flux journal

**How the shift from montage to navigation alters the way images—and art—operate as models of political action and modes of political intervention.**

Navigation begins where the map becomes indecipherable. Navigation operates on a plane of immanence in constant



motion. Instead of framing or representing the world, the art of navigation continuously updates and adjusts multiple frames from viewpoints within and beyond the world. Navigation is thus an operational practice of synthesizing various orders of magnitude.

Only a few weeks prior to his untimely death in 2014, Harun Farocki briefly referred to navigation as a contemporary challenge to montage—editing distinct sections of film into a continuous sequence—as the dominant paradigm of techno-political visuality.

For Farocki, the computer-animated, navigable images that constitute the twenty-first century’s “ruling class of images” call for new tools of analysis, prompting him to ask: How does the shift from montage to navigation alter the way images—and art—operate as models of political action and modes of political intervention?

### Contributors

Ramon Amaro, James Bridle, Maité Chénrière, Kodwo Eshun, Anselm Franke, Jennifer Gabrys, Tom Holert, Inhabitants, Doreen Mende, Matteo Pasquinelli, Laura Lo Presti, Patricia Reed, Nikolay Smirnov, Hito Steyerl, Oraib Toukan, and Brian Kuan Wood.

Launched in 2008, *e-flux journal* is a monthly art publication featuring essays and contributions by some of the most engaged artists and thinkers working today.

March | 4 1/4 x 7, 232 pp. | 10 illus.

**US \$24.00T/\$32.00 CAN paper**

978-3-95679-565-7

**e-flux journal**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

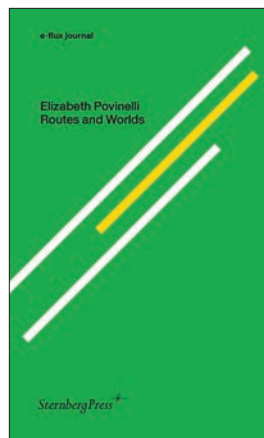
art

## Routes & Worlds

Elizabeth A. Povinelli

**An anthropology of the otherwise considers forms of life that run counter to dominant modes of being under late settler liberalism.**

Elizabeth Povinelli’s anthropology of the otherwise locates itself within forms of life that run counter to dominant modes of being under late settler liberalism.



In *Routes & Worlds*, she considers the emergence of new worlds and the extinguishing of old ones, seeking to develop a social imaginary that can sustain radical potentiality without turning a blind eye to our deep interdependence.

In these essays, Povinelli moves from a discussion of the anthropology of the gift to a look at the contemporary debates between Bruno Latour and Peter Sloterdijk about the relative values of network and sphere

theory, and offers reflections on two recent projects—a graphic memoir and augmented reality venture—that elaborate what she terms *embagination*: a visual and spatial metaphor of anthropology as a woven bag in which things circulate.

**Elizabeth A. Povinelli** is a critical theorist and filmmaker. Her work spans five books, numerous essays, and thirty-five years of collaboration with her Indigenous colleagues in north Australia, including, most recently, six films they have created as members of the Karrabing Film Collective.

February | 4 1/4 x 7, 256 pp. | 10 illus.

**US \$24.00T/\$32.00 CAN paper**

978-3-95679-566-4

**e-flux journal**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Don't Follow the Wind

Nikolaus Hirsch and Jason Waite

**Documenting an invisible, inaccessible exhibition within the Fukushima exclusion zone.**

This twelfth volume of the Critical Spatial Practices series focuses on *Don't Follow the Wind*, an internationally acclaimed collaborative project situated in the radioactive Fukushima exclusion zone, codeveloped and curated by the *Don't Follow the Wind* collective (composed of Chim-Pom, Kenji Kubota, Jason Waite, and Eva and Franco Mattes).



*Don't Follow the Wind* is an inaccessible exhibition inside of the restricted Fukushima exclusion zone, a forcibly evacuated radioactive area established in the wake of the 2011 meltdowns at Fukushima Daiichi Nuclear Power Station.

New commissions by artists Ai Weiwei, Meiro Koizumi, Trevor Paglen, Kota Takeuchi, Ahmet Ögüt, Taryn Simon, Nikolaus Hirsch and Jorge Otero-Pailos, Aiko Miyayama, Nobuaki Takekawa, Grand Guignol Mirai, Eva and Franco Mattes, and Chim-Pom were installed at sites around Fukushima lent by former residents. The exhibition opened on March 11, 2015, yet as the exclusion zone remains inaccessible to the public, it is largely invisible—a condition akin to radiation itself. It can only be viewed in the future when restrictions are lifted and the residents are able to return, but there is no clear timeline: several years or a decade, or a period that could extend beyond our lifetimes.

Architect **Nikolaus Hirsch** is director of Städelshule and Portikus in Frankfurt. **Jason Waite** is an independent curator and cultural worker and a doctoral candidate in Contemporary Art History and Theory at the University of Oxford in the Ruskin School of Art and Christ Church.

May | 4 1/4 x 6, 256 pp. | 24 color illus., 37 b&w illus.

**US \$17.95T/\$23.95 CAN paper**  
978-3-95679-568-8

**Critical Spatial Practice**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

architecture

## Pre/Architecture

Spyros Papapetros

**How a pre-architectural world became a central object of study by architectural historians and architects in the aftermath of world historical events.**

Can there ever be a world before architecture? Is there an *arche*—origin, beginning, or authority—that precedes the appearance of architectonics?



This book argues that such a *pre-architectural* state became a central object of investigation by architectural historians and practicing architects in the aftermath of world historical events and major epistemological revolutions.

Ultimately, the study of prehistoric origins could uncover not only the causes of modernity's present crisis, but also the signs of architecture's futures past. By juxtaposing the fossils of prehistory with

postwar cosmic anxieties and prognostications of a *post-histoire*, what is ultimately invented is a pre/post/erous history—a fictional prehistory of future architectonics. *Pre-architecture* is not simply “not architecture”; it is what architecture could have become but ultimately disavowed. The same unfulfilled potentialities haunt not only the distant past but also architecture's anxious present, periodically circling back to an aborted prehistory.

**Spyros Papapetros** is Associate Professor of History and Theory and a member of the Executive Committees of the Program in European Cultural Studies and the Program in Media and Modernity at Princeton University.

May | 4 1/4 x 6, 128 pp. | 12 color illus., 30 b&w illus.

**US \$17.95T/\$23.95 CAN paper**  
978-3-95679-284-7

**Critical Spatial Practice**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

# The Contexts of Curating

**Terry Smith**

foreword by Steven Henry Madoff

If we ask where curating of art occurs these days—in which places, which kinds of place, and how—apparent answers immediately appear: everywhere, expanding as if to ubiquity. Yet at the same time, we sense, with fragile purpose. In this, his newest book, Terry Smith explores the contemporary contexts of curating, looking for less apparent answers.

Smith maps the dimensions of the visual arts exhibitionary complex, including its dialectical dance between institutionalization and deinstitutionalization; the persistence of professional classifications of curatorship; the given and changing categories of art exhibitions; the increasing variety of curatorial styles; the underthinking about publics; and (undistracted by curationism) the changing roles of art making and exhibiting art within an exhibitory iconomy that is at once viral and consumptive. A mapping of this kind might help us toward some answers to the more important questions: why curate art these days and in the name of which interests?

**Terry Smith** is Andrew W. Mellon Professor of Contemporary Art History and Theory in the Department of the History of Art and Architecture at the University of Pittsburgh.

**Steven Henry Madoff**, an award-winning writer, editor, and poet, has written extensively on contemporary art for such publications as *Artforum*, the *New York Times*, and *Time* magazine, and published numerous monographs on leading artists. He is Senior Critic at Yale University's School of Art.

**An analysis of the contexts in which curating takes place: why curate art these days and in the name of which interests?**

April  
4 3/4 x 7 1/2, 96 pp.  
6 illus.

**US \$19.95 / \$25.95 CAN paper**  
978-3-95679-531-2

**Thoughts on Curating**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

art

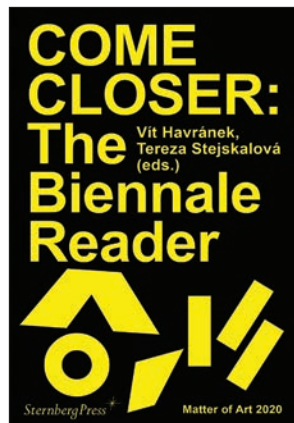
## COME CLOSER

The Biennale Reader

edited by Vít Havránek and Tereza Stejskalová

**A reader on issues of race, class, and gender in post-socialist states from an artworld perspective.**

*COME CLOSER: The Biennale Reader*, published on the occasion of the inaugural Prague Biennale, considers the present via



counter-hegemonic readings of the past. The book explores various perspectives of class, race, and gender differences in post-socialist states, past and present. In societies today that can seem fragmented, alienated, and sealed off, a feeling of “us” and “them” can potentially emerge. The reliance on a common language to bring people closer often does the opposite, leading to feelings of contempt, anxiety, and fear. By drawing attention to themes of intimacy, care, and empathy,

the contributions in *COME CLOSER* search for new types of communication that can bring people together. Like language, art can be used to mediate these differences, and to examine issues relating to how people coexist in society.

### Contributors

Jérôme Bazin, Heather Berg, Pavel Berky, Anna Daučíková, Patrick D. Flores, Isabela Grosseová, Vít Havránek, Marie Iljašenko, Rado Ištok, Barbora Kleinhamplová, Eva Kotátková, Kateřina Lišková, Ewa Majewska, Tuan Mami, Alice Nikitinová, Alma Lily Rayner, Sarah Sharma, Jirka Skála, Adéla Souralová, Edita Stejskalová, Tereza Stejskalová, Matěj Spurný, Ovidiu Tichindeleanu, Simone Wille

**Vít Havránek** is a curator and art organizer based in Prague, Czech Republic. Since 2002 he has been a director of the initiative for contemporary art tranzit ([www.tranzit.org](http://www.tranzit.org)). **Tereza Stejskalová** is a curator and a writer working for tranzit.org and a lecturer in art theory at the Film Academy in Prague (FAMU).

February | 5 3/8 x 8, 304 pp. | 9 color illus., 33 b&w illus.

**US \$24.95T/\$33.95 CAN paper**

978-3-95679-570-1

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

art

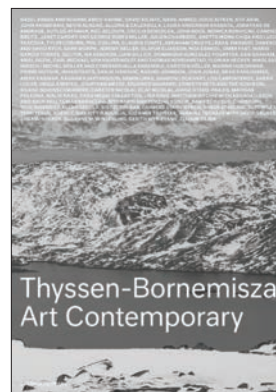
## Thyssen-Bornemisza Art Contemporary

The Commissions Book

edited by Daniela Zyman and Eva Ebersberger

**A massive anthology of texts, visual material, and research on TBA21's commissions and the foundation's vast collection of over 700 artworks.**

“What survives after the artwork?” asks curator and researcher Natasha Ginwala in one of the essays in *Thyssen-Bornemisza Art Contemporary: The Commissions Book*, a new and comprehensive



publication by the art foundation Thyssen-Bornemisza Art Contemporary (TBA21), founded by Francesca Thyssen-Bornemisza in Vienna, Austria, in 2002. “The artwork is not just the thing in itself, but also the metaphysical infrastructure and unfinished relationships that produce it,” Ginwala writes. In that sense, this anthology of texts, visual material, and research on

TBA21’s commissions and the foundation’s vast collection of over 700 artworks serves as vivid testimony to the processes and relationships that enabled them.

In more than 1,300 pages, this massive anthology engages with more than 100 works of art, proposing a speculative topography that organizes and weaves together sequences of potential narratives and interrogations along with close examinations of different works of art and a collective archive of images. Bringing together visual and written material from TBA21’s commissioning practice and vast history of exhibitions and live events, this volume also goes beyond the foundation’s archives to present new works and commissions by Cecilia Bengolea, Claudia Comte, SUPERFLEX, and Territorial Agency, among many others. New essays by Natasha Ginwala and such transdisciplinary feminist thinkers as Astrida Neimanis and Eva Hayward transcend individual artistic positions and ask questions that lie at the core of TBA21’s program.

**Daniela Zyman** is chief curator of Thyssen-Bornemisza Art Contemporary in Vienna. **Eva Ebersberger** is Head of Publications at Thyssen-Bornemisza Art Contemporary in Vienna.

February | 6 x 8 1/4, 1336 pp. | 400 color illus.

**US \$35.95T/\$47.95 CAN cloth**

978-3-95679-555-8

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

## Institution as Praxis

New Curatorial Directions for Collaborative Research

edited by **Carolina Rito** and **Bill Balaskas**

**How creative practices are modifying the ways we think about knowledge production and research in the cultural sector and in academia.**

*Institution as Praxis: New Curatorial Directions for Collaborative Research* explores new curatorial and artistic practices that



contribute to the expansion of institutional, practice-based, and collaborative research methods. Offering an overview of how creative practices are modifying the ways we think about both knowledge production and research in the cultural sector and in academia, the book outlines new research methodologies and strategies for de-universalizing and de-neutralizing the rigid epistemic schemata of inherited disciplines.

Designed as a platform of aesthetic and intellectual exchange, the speculative interface of cultural practices has radically changed the way we consider how research qualities in curatorial and artistic practices have developed. *Institution as Praxis* aims to identify and advocate for a multiplicity of practices taking place across the cultural sector that not only engage with the quest to deliver cultural activities (e.g. exhibitions, events), but also generate new modes of knowledge production and research in the field of visual culture, art, and the curatorial.

**Carolina Rito** is a researcher and curator. She is Professor of Creative Practice Research, Research Centre for Arts, Memory, and Communities, at Coventry University. **Bill Balaskas** is an artist, theorist, and educator whose works have been widely exhibited. He is Associate Professor and Director of Research at Kingston University's School of Art and Architecture.

### Contributors

Bill Balaskas, Michael Birchall, Mélanie Bouteloup, Carolina Cerón, Anthony Downey, Pujita Guha and Abhijan Toto for the Forest Curriculum, Joasia Krysa, Vali Mahlouji, Je Yun Moon, Andrea Phillips, Emily Pringle, Carolina Rito, ruangrupa (farid rakun and Leonhard Bartolomeus), Nora Sternfeld, Sian Vaughan

February | 5 3/8 x 8, 272 pp. | 27 illus.

**US \$24.95T/\$33.95 CAN paper**

978-3-95679-506-0

**Distributed for Sternberg Press**

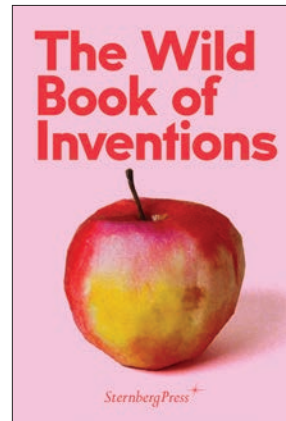
**Not for sale in the UK or Europe**

## The Wild Book of Inventions

edited by **Chus Martínez**

**In essays, poems, sketches, and photographs, twenty authors challenge the exclusive human claim to intelligence.**

Can contemporary art's practitioners change the way we perceive nature? In *The Wild Book of Inventions*, twenty authors



employ a variety of forms, including speculative essays, poems, pencil sketches, and photo essays, to challenge the exclusive human claim to intelligence by pointing to, or inventing, new forms of coexistence for all life-forms. Far more complex than the necessary and continuous exercise of critique, these contributions introduce new ways to experience culture.

### Contributors

Nabil Ahmed, Armen Avanesian,

Hannah Black, Kristina Buch, Tyler Coburn, Ann Cotten, Paul Feigelfeld, Fernando García-Dory, Kenneth Goldsmith, Anke Hennig, Ingela Ihrman, Tiphonie Kim Mall, Chus Martínez, Momus, Ingo Niermann, Trevor Paglen, Filipa Ramos, Lin May Saeed, Emily Segal, Johannes Willi

**Chus Martínez** is Head of the Art Institute at the FHNW Academy of Arts and Design in Basel, Switzerland. She is also a curator at der TANK, the Art Institute's exhibition space in Basel. She is a regular contributor to *Artforum* and other international journals.

February | 5 x 7 1/2, 416 pp. | 65 color illus., 46 b&w illus.

**US \$25.95T/\$34.95 CAN paper**

978-3-95679-249-6

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

## Logistics

Critical Theory of Flows and Cosmography

edited by Armen Avanesian, Werner Boschmann,  
and Karen Sarkisov

**New insights and key classic views on the genealogy, theory, and critique of logistics.**

In a globalized economy, new strategies, architectures, and technologies organizing flows of resources, goods, persons, and services have been developed, resulting in the development of a new market logic and even a new science. Logistics hasn't just altered our infrastructure and our landscapes, it has also standardized labor laws and politics all over the globe. It has grown obvious that the word "logistics" covers more than the mere articulation of production and consumption. This is why it has become more urgent than ever to understand the history and logic that has driven this new force that has so deeply affected our daily lives and reshaped

our planet. How do the concepts of space, movement, agency, governance, and calculation shift in this regard? Presenting new insights and key classic views on the genealogy, theory, and critique of logistics, this volume explores alternative narratives in the historiography of infrastructure and globalization—and even mankind itself—in the era of the Anthropocene.

Edited in dialogue with Laurent de Sutter

**Armen Avanesian** is an Austrian philosopher, literary theorist, and political theorist.

### Contributors

Peter Klaus/Stefanie Müller, Anna Lowenhaupt Tsing, Chermaine Chua, Jesse LeCavalier, Deborah Cowen, Keller Easterling, Vladimir Prebilic

June | 6 x 9, 152 pp. | 8 illus.

**US \$19.95T/\$25.95 CAN paper**

978-3-95679-564-0

**XXI Century Science**

**Distributed for Sternberg Press**

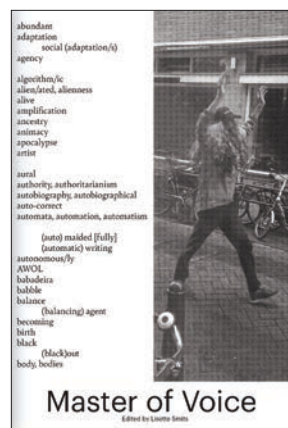
**Not for sale in the UK or Europe**

## Master of Voice

edited by Lisette Smits

**A collection that looks at the role and use of the nonhuman voice in art.**

The (non)human voice has always been part of modern art, notably within performance art, sound art, and conceptual art.



The Master of Voice graduate program mutates from this history, examining the voice as a unique “discipline.” The focus is on the (non) human voice, as a means to an end or an end in itself, within artistic practice.

A special orientation of the Master of Voice curriculum, codeveloped with a team of artists with a longstanding interest in the (non)human voice, is the voice in relation to technology and gender. This book captures a two-year-long period of research—of think-

ing, talking, sharing, learning, making, acting, and creating by students and teachers, artists, and other practitioners—to find possible answers and approaches to the question of the voice and its prominent role in our postindustrial society.

**Lisette Smits** is a freelance curator, editor, and educator based in the Netherlands.

### Contributors

Tyler Coburn, Angelo Custódio, Thom Driver, Paul Elliman, Amelia Groom, Miyuki Inoue, Danae Io, Jamila Johnson-Small, Bin Koh, Snežanka Mihajlova, Maria Montesi, MPA, Natasha Papadopoulou, Duncan Robertson, Marnie Slater, Lisette Smits, Eva Šušová, Cécile Tafanelli, Mavi Veloso, Geo Wyeth

February | 5 3/8 x 8, 344 pp. | 127 illus.

**US \$19.95T/\$25.95 CAN paper**

978-3-95679-514-5

**Sandberg Series**

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art

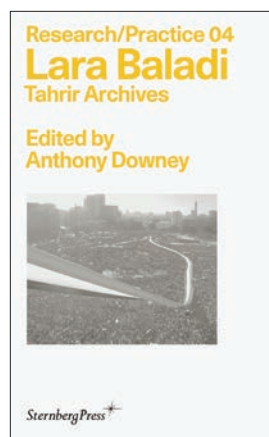
## Lara Baladi

Tahrir Archives

edited by Anthony Downey

**An examination of Lara Baladi's *Tahrir Archives*: digital images, blogs, videos, and other associated media concerning the 2011 protests in Tahrir Square.**

The revolutionary protests in Egypt's Tahrir Square in 2011 signified a key event in both world history and the historical



development of digital and social media. Considered foundational to the Arab Uprisings, digital representations of those events gave rise to questions that have become all the more urgent today. How, for one, do we understand the role of social media platforms as a means of organizing and effecting political protest? And how do we digitally archive historical events for future generations and researchers through such media? Conceived by Lara Baladi, *Tahrir Archives* is an index of images and texts related to her first-hand experience and

the ensuing repercussions of Cairo's protests in January 2011.

Organized as a means to capture the often transitory digital images that we associate with social networking sites and video-sharing platforms, the project also includes press cuttings, first-hand accounts, blogs, articles, and other associated research. Investigating how digital archiving can produce a partial view of history—if not, more insidiously, an algorithmically curated series of de-contextualized images—this research divulges and explores the implications of online platforms covertly editing and purging images over time. How, this volume asks, will the contemporary political economy of digital image production define our future understanding of political events, social transformations, and protest movements in both regional and, just as importantly, global contexts?

July | 4 3/4 x 7, 160 pp. | 30 color illus., 40 b&w illus.

**US \$20.00T/\$27.00 CAN paper**  
978-3-95679-574-9

**Research/Practice**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

art

## Roy Samaha

Revenant

edited by Anthony Downey

**Artist Roy Samaha's examination of the uses of digital technology in the face of untimely disappearances and ghostly returns.**

In June 2014, Roy Samaha embarked on a journey to the Aegean Sea that included a trip to Mytilene on the island of Lesbos. Scouting potential locations for a feature film, he encountered a folkloric tale about revenants and their perceived inability to travel across saltwater. A year later, Samaha was confronted with images of refugees' capsized boats and the stories of their drowning in the Mediterranean. Recalling the earlier tale about the Lesbos revenants, Samaha submerged the smartphone that he had used during his trip to Mytilene in saltwater for forty days. As a result, the pictures, videos and messages that were stored

in its memory were destroyed. Just as saltwater discouraged the passage of revenants and refugees, it likewise denied access to the images and information previously contained on Samaha's smartphone.

Focusing on the research that emerged from Samaha's initial journey, this volume inquires into how we represent historical events through digital means, especially if those events concern untimely disappearances and ghostly returns. Can the digital as a conduit negotiate the ephemerality or ghostliness of present-day forms of transmigration? What happens when we are left with an object of commemoration that speaks not only of an absence of images but the perennial ineffectiveness of digital technologies in the face of profound loss?

**Anthony Downey** is Professor of Visual Culture in the Middle East and North Africa within the Faculty of Arts, Design, and Media at Birmingham City University.

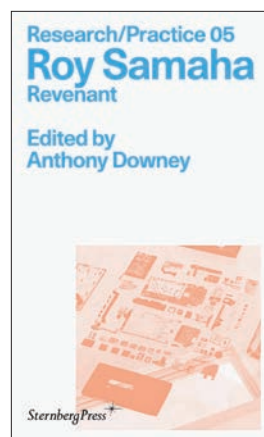
July | 4 3/4 x 7, 160 pp. | 30 color illus., 40 b&w illus.

**US \$20.00T/\$27.00 CAN paper**  
978-3-95679-575-6

**Research/Practice**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Migration

Traces in an Art Collection / Spår i en konstsamling

edited by Maria Lind and Cecilia Widenheim

**A survey and exhibition catalog looking at a century of the migrant experience as realized and expressed through art.**

How have artists over the past 150 years related to migration and exile? And what role can a museum play in times of mass migration? Taking as its starting point the 2019 exhibition *Migration: Traces in an Art Collection*, which featured more than a hundred works from Malmö Konstmuseum made between 1880 and today, this publication brings to light the radical approach of museum director Ernst Fischer, who in 1945 transformed the museum into a refugee shelter for survivors of German concentration camps. It also highlights the museum's long-forgotten Latvian Collection, comprised of art acquired

in solidarity with the young Baltic nation and its exiles.

Contrasting works by exiled artists such as Sonia Delaunay-Terk, Lotte Laserstein, Endre Nemes, and Peter Weiss further animate the discussion, as do the geopolitical concerns of Pia Arke, Öyvind Fahlström, and Charlotte Johannesson. Together, these re-readings of the collection and its potential contribute to an urgent debate on the role of museums in our time.

**Maria Lind** is a curator, writer, and educator based in Stockholm and Berlin. She has served as Director of Tensta konsthall, Artistic Director of the 11th Gwangju Biennale, Director of the Center for Curatorial Studies graduate program at Bard College, and Director of Iaspis, the International Artists Studio Program in Stockholm. **Cecilia Widenheim** is Director of Tensta konsthall. As director of Malmö Konstmuseum, she initiated several research projects based on the collection. Previously, she was Director of Iaspis, the International Artists Studio Program in Stockholm, and prior to that, Curator at Moderna Museet in Stockholm.

February | 6 1/2 x 9 1/2, 320 pp. | 58 color illus., 175 b&w illus.

**US \$29.95T/\$39.95 CAN paper**

978-3-95679-547-3

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

art

## Bordered Lives

Immigration Detention Archive

Mary Bosworth, Khadija von Zinnenburg Carroll,  
and Christoph Balzar

**The experience of detention from the perspective of the immigrant, drawing on the fields of art, design, and criminology.**

Drawing on original documents, photographs, and detainee artwork, *Bordered Lives* offers a unique insight into the experience of immigration

detention in the United Kingdom. With interdisciplinary backgrounds in art, design, and criminology, the authors present views of everyday life under this form of border control.

In offering a glimpse within these hidden sites, they explore fundamental questions about coercion, censorship, and control, as well as belonging and resistance.

This book introduces the Immigration Detention Archive and reflects

on the conditions under which art is supposed to be produced (and is undermined) in institutional spaces. Mixing shadow puppetry, photographic slides, video, architectural models, and spoken word, Khadija von Zinnenburg Carroll's performance *Men in Waiting* presents the effects of indeterminate detention, bureaucratic indifference, and banality on the subjectivity of the incarcerated.

**Mary Bosworth** is the Director of the Centre for Criminology and Fellow of St. Cross College at the University of Oxford and, concurrently, Professor of Criminology at Monash University. In Oxford she directs Border Criminologies, an interdisciplinary research group focusing on the intersections between criminal justice and border control. **Khadija von Zinnenburg Carroll** is an artist, professor, and Chair of Global Art at the University of Birmingham.

**Christoph Balzar** is an artist, curator, and mediator in Berlin who works in the field of art, art history, and anthropology of art.

February | 8 1/4 x 12, 144 pp. | 47 color illus., 13 b&w illus.

**US \$18.00T/\$24.00 CAN cloth**

978-3-95679-371-4

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

## Creativity Exercises

Emancipatory Pedagogies in Art and Beyond

edited by Dóra Hegyi, ZsuZsa László,  
and Franciska Zólyom

**A collection of texts, historical and contemporary,  
on radical pedagogy in the arts.**

How do people learn, what do they know, and how does it influence their personality, their behavior, and their position



in society? These questions were the focus of the research project and exhibition series entitled “Creativity Exercises” between 2014 and 2016, which displayed historical and contemporary art projects experimenting with alternative forms of learning, spanning three exhibition stations: Galerie für Zeitgenössische Kunst Leipzig, tranzit.hu in Budapest, and the Museum of Modern Art in Warsaw.

The book contextualizes the

Creativity Exercises—an amateur art course led by neo-avant-garde artists Miklós Erdély and Dóra Maurer in Budapest from 1975 to 1977—within the postwar intellectual networks that connected artists, architects, educators, sociologists, and other socially engaged professionals, fostering the exchange of ideas and concepts and making connections between different fields of knowledge. The impact that such creativity exercises had on aesthetic, educational, and institutional concepts, and the impulses for participation, co-creation, and knowledge production and exchange that they continue to give—even beyond the realm of art—are the central themes of the book.

**Dóra Hegyi** is a curator and critic who lives and works in Budapest. **ZsuZsa László** is a researcher, curator, and art critic based in Budapest. She is a lecturer at the Intermedia Department of the Hungarian University of Fine Arts, and at the Institute for Art Theory and Media Studies, ELTE, Budapest. **Franciska Zólyom** is an art historian and curator; she has been the director of GfZK—Museum of Contemporary Art Leipzig since 2012.

February | 6 1/2 x 9, 384 pp. | 48 color illus., 178 b&w illus.

**US \$32.00T/\$42.00 CAN paper**  
978-3-95679-552-7

**Distributed for Sternberg Press**  
**Not for sale in the UK or Europe**

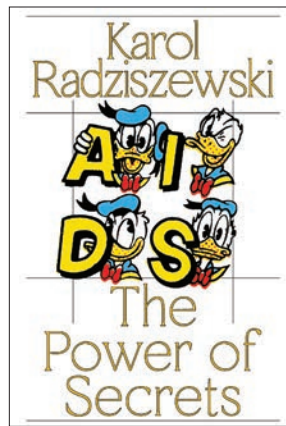
## Karol Radziszewski

The Power of Secrets

edited by Michał Grzegorzek

**Karol Radziszewski's montage of queer archival  
materials that formulate new ways of understanding  
history, memory, and legislation in Eastern Europe.**

In 1989, a great political change awaited Poland: with the fall of the Berlin wall, and the flourishing of capitalism, the people



behind the Iron Curtain would be set free. Karol Radziszewski was nine years old, living in Białystok, and, in a graph-paper notebook, he drew pages and pages of princesses in corrective eyewear, dogs with mermaid tails, and mysterious seductresses, whose exceptionally firm bosoms would be, sooner or later, bedecked in arrows shot into a heart or a flame. Karol knew that the secrets of these notebooks were off limits to everyone.

Today these drawings reemerge as self-portraits of this adult artist: full-fledged works capping off Radziszewski's enormous queer archive. For he himself is a man of many faces: artist, curator, film director, and avid collector, skillfully navigating between the visual and performative arts. But above all, he is the creator of the Queer Archives Institute, a never-ending performance and informal organization grappling with the suppressed, yet surprisingly beautiful queer memory of Central and Eastern Europe.

The secret performativity of Karol Radziszewski's archive is not merely in its tales of the past, but also, above all, in the queer potential of the future: its revolutionary nature, its change, and its promise of freedom.

### Contributors

Michał Grzegorzek, Fanny Hauser, João Laia, Élisabeth Lebovici, Katarzyna Przyłuska-Urbanowicz, Dorota Sajewska, Barbara Steiner, Wojciech Szymański

**Michał Grzegorzek** is curator at the CCA Ujazdowski Castle in Warsaw.

February | 6 1/4 x 8 1/4, 152 pp. | 100 color illus.

**US \$26.00T/\$35.00 CAN cloth**  
978-3-95679-550-3

**Distributed for Sternberg Press**  
**Not for sale in the UK or Europe**



art | urbanism

## Peter Friedl

Rehousing

edited by Kunsthalle Wien

foreword by  
Vanessa Joan Müller

**Writers respond to the architectural true-to-scale models of Peter Friedl's Rehousing series.**

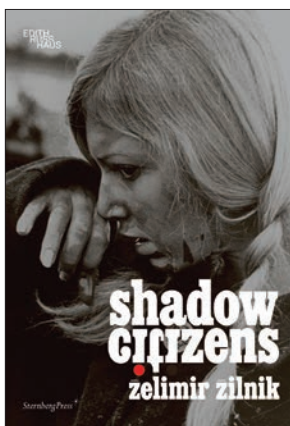
**Kunsthalle Wien** is the exhibition hall for contemporary art in Vienna. **Vanessa Joan Müller** is Head of Dramaturgy at the Kunsthalle Wien.

February | 5 1/4 x 7 3/4, 192 pp. | 30 color illus.

**US \$22.95T/\$29.95 CAN paper**  
978-3-95679-551-0

Distributed for Sternberg Press

Not for sale in the UK or Europe



art

## Želimir Žilnik

Shadow Citizens

edited by What, How & for  
Whom/WHW

**Explorations of the radical film praxis and extensive oeuvre of filmmaker Želimir Žilnik.**

**What, How & for Whom/WHW** (established 1999) is a curatorial collective whose members are **Ivet Ćurlin**,

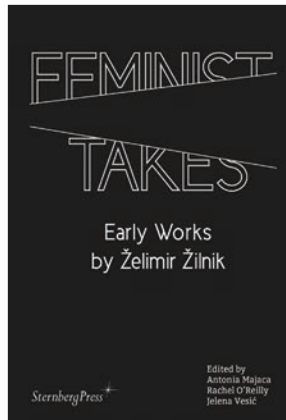
**Ana Dević**, **Nataša Ilić**, and **Sabina Sabolović**, along with designer and publicist **Dejan Kršić**.

February | 6 1/2 x 9 1/2, 336 pp. | 150 color illus., 200 b&amp;w illus.

**US \$34.95T/\$45.95 CAN cloth**  
978-3-95679-520-6

Distributed for Sternberg Press

Not for sale in the UK or Europe



art

## Feminist Takes

Early Works by Želimir Žilnik

edited by Antonia Majaca,  
Rachel O'Reilly, and  
Jelena Vesić

**Essays that create a dynamic discussion among leading feminist thinkers on Želimir Žilnik's film Early Works (1968).**

**Antonia Majaca** is a curator and writer based in Berlin and Research Leader at the Institute for Contemporary Art at the Graz University of Technology.

**Rachel O'Reilly** is an independent writer/artist, curator, and researcher. She is a Seminar Leader at the Dutch Art Institute. **Jelena Vesić** is an independent curator, writer, editor, and lecturer. She is coeditor of *Red Thread Journal* and a member of editorial board of *Art Margins*.

March | 6 1/2 x 9 1/4, 152 pp. | 300 illus.

**US \$19.95T/\$25.95 CAN paper**  
978-3-95679-320-2

Distributed for Sternberg Press

Not for sale in the UK or Europe



art | film

## Deux Soeurs

Beatrice Gibson

edited by Axel Wieder

**A reader on artist Beatrice Gibson's films that explores representations of parenthood, friendship, and disobedience.**

**Beatrice Gibson** is an artist based in London. **Axel Wieder** is a curator and writer and since 2018 Director of Bergen Kunsthall. He has

been director of Index—the Swedish Contemporary Art Foundation in Stockholm (2014–2018), where he organized solo exhibitions of Simone Forti, Stephen Willats, Sidesel Meineche Hansen, Willem de Rooij, and Anna Boghiguan, and a collaborative project by John Skoog and Emanuel Röhss.

February | 4 1/4 x 7, 248 pp. | 14 color illus.

**US \$19.95T/\$25.95 CAN paper**  
978-3-95679-546-6

Distributed for Sternberg Press

Not for sale in the UK or Europe





art

## Ilona Németh

Eastern Sugar

edited by Maja Fowkes,  
Reuben Fowkes, and  
Ilona Németh

**A look, through the work of Ilona Németh, at the transitioning social and economic infrastructure of Eastern Europe.**

Maja Fowkes and Reuben Fowkes are Cofounders of the Translocal Institute for Contemporary Art and Codirector of the Postsocialist Art Centre (PACT) at the Institute of Advanced Studies, UCL. Ilona Németh is an artist, professor, organizer and curator based in Slovakia.

April | 8 1/4 x 10 1/4 240 pp. | 100 color illus.

**US \$29.95T/\$39.95 CAN cloth**  
978-3-95679-573-2

**Copublished with Slovak National Gallery, Bratislava**

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



film

## Emilija Škarnulytė

Sirenomelia

edited by Andrew Berardini

**An in-depth focus on artist and filmmaker Emilija Škarnulytė's *Sirenomelia*, a cosmic portrait of one of mankind's oldest mythic creatures—the mermaid.**

Andrew Berardini is a writer of quasi-essayistic prose poems about art and other sensual subjects, occasional editor, and curator with past exhibitions at MOCA in Los Angeles, Palais de Tokyo in Paris, Castello Di Rivoli in Turin and the Estonian Pavilion at the 2019 Venice Biennale.

February | 6 1/2 x 9, 200 pp. | 100 color illus.

**US \$31.95T/\$41.95 CAN paper**  
978-3-95679-558-9

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Roee Rosen

Desire and Dust

edited by Anne Mikél Jensen  
and Roee Rosen

**The artistic universe of Israeli artist and filmmaker Roee Rosen.**

Anne Mikél Jensen is Project Manager at Kunsthall Charlottenborg, Denmark.

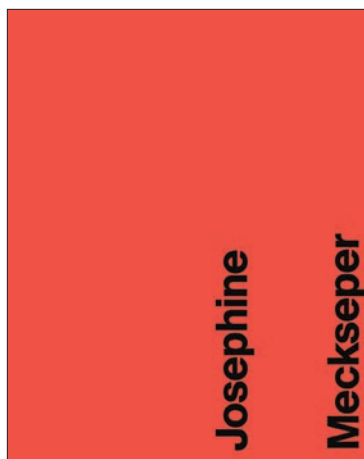
Roee Rosen (b. 1963) is an artist, writer, and filmmaker as well as a critical voice in his native Israel. He is a professor at HaMidrasha College of Art, Kfar-Saba, and the Bezalel Art Academy of Arts and Design, Jerusalem.

February | 5 3/8 x 8, 160 pp. | 43 color illus., 37 b&w illus.

**US \$23.95T/\$31.95 CAN paper**  
978-3-95679-545-9

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Josephine Meckseper

edited by  
Laurence Gateau

**A retrospective catalogue of New York artist Josephine Meckseper's first survey exhibition in France.**

Laurence Gateau is Director of the Pays de la Loire Regional Contemporary Art Fund.

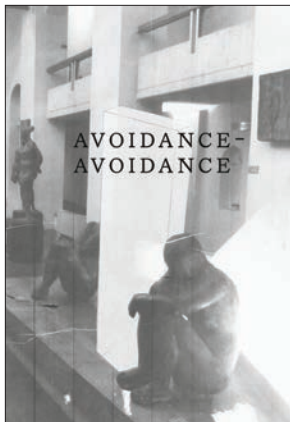
February | 8 1/4 x 10 1/2, 64 pp. | 9 color illus., 72 b&w illus.

**US \$26.95T/\$35.95 CAN paper**  
978-3-95679-557-2

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**





art

## Avoidance— Avoidance

Jesse Ash

introduction by Elsa Coustou

**The script for, and conversations around, artist Jesse Ash's multi-dimensional project built around a play about a bitter argument between two ex-lovers.**

Jesse Ash is an artist and Tutor in painting at The Royal College of Art, London

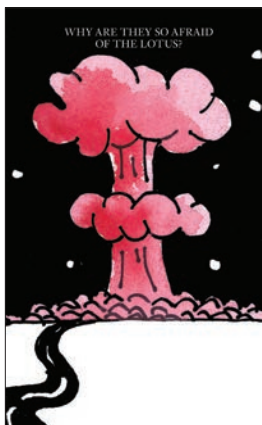
March | 6 1/2 x 9 1/4 208 pp. | 108 color illus., 106 b&w illus.

**US \$26.00T/\$35.00 CAN paper**

978-3-95679-428-5

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



cultural studies

## Why Are They So Afraid of the Lotus?

A Series of Open Questions

edited by Anthony Huberman,  
Kim Nguyen,  
and Jeanne Gerrity

**A conceptual “course packet” of readings around and inspired by the work of Trinh T. Minh-ha.**

Anthony Huberman is the Director and Chief Curator of the Wattis Institute for Contemporary Arts in San Francisco and Founding Director of the Artist's Institute in New York. Kim Nguyen is the Curator and Head of Programs at the Wattis Institute. Jeanne Gerrity is the Deputy Director and Head of Publications at the Wattis and has written for such publications as *Artforum*, *Art Agenda*, and *Frieze*.

May | 4 1/2 x 7, 304 pp. | 50 illus.

**US \$15.00T/\$20.00 CAN paper**

978-3-95679-569-5

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Visual Cultures as Time Travel

Henriette Gunkel and  
Ayesha Hameed

**The notion of time travel marked by both possibility and loss: making the case for cultural research that is oriented toward the future.**

Henriette Gunkel is Professor of Transformations of Audiovisual Media with special emphasis on gender and queer theory at the Institute for Media Studies, Ruhr University Bochum. Ayesha Hameed is the Co-Programme Leader for the PhD in Visual Cultures at Goldsmiths, University of London.

April | 5 3/8 x 7 3/4, 96 pp. | 4 illus.

**US \$14.95T/\$19.95 CAN paper**

978-3-95679-538-1

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**



art

## Visual Cultures as World Forming

Adnan Madani and  
Jean-Paul Martinon

**How the world—and the world of visual culture in particular—creates itself in a creative act that knows no economic return.**

Adnan Madani is an artist and writer and Lecturer in Visual Cultures at Goldsmiths College. Jean-Paul Martinon is a writer based in London and Reader in Visual Cultures at Goldsmiths College.

April | 5 3/8 x 7 3/4, 96 pp. | 4 illus.

**US \$14.95T/\$19.95 CAN paper**

978-3-95679-537-4

**Distributed for Sternberg Press**

**Not for sale in the UK or Europe**

film

## The Otherwise

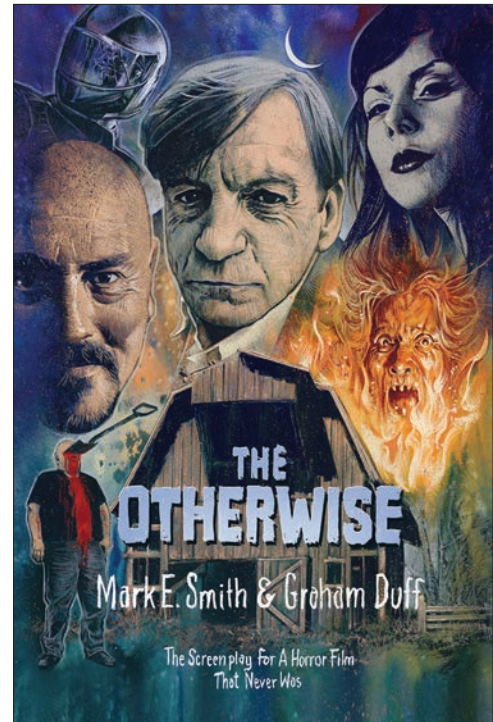
The Screenplay for a Horror Film That Never Was

**Mark E. Smith and Graham Duff**

In 2015, Mark E. Smith of The Fall and screenwriter Graham Duff cowrote the script for a horror feature film called *The Otherwise*. The story involved The Fall recording an EP in an isolated recording studio on Pendle Hill. The Lancashire landscape is not only at the mercy of a satanic biker gang, it's also haunted by a gaggle of soldiers who have slipped through time from the Jacobite Rebellion. Every film production company that saw the script, however, said it was “too weird” ever to be made.

*The Otherwise* is weird. Yet it's also witty, shocking, and genuinely scary. Now the screenplay is published for the first time, alongside photographs, drawings and handwritten notes. The volume also contains previously unpublished transcripts of conversations between Smith and Duff, in which they discuss creativity, dreams, musical loves (from Can to acid house) and favorite films (from *Britannia Hospital* to *White Heat*). Smith also talks candidly about his youth and mortality, in exchanges that are both touching and extremely funny.

**Mark E. Smith** was an English singer and songwriter who was the lead singer, lyricist, and only constant member of the post-punk group the Fall. **Graham Duff** is a British TV comedy and drama scriptwriter whose credits include *Ideal* and *The Nightmare Worlds of H.G. Wells*. As an actor he has appeared in, among other things, two Harry Potter films, *Alan Partridge*, and *Dr. Who*.

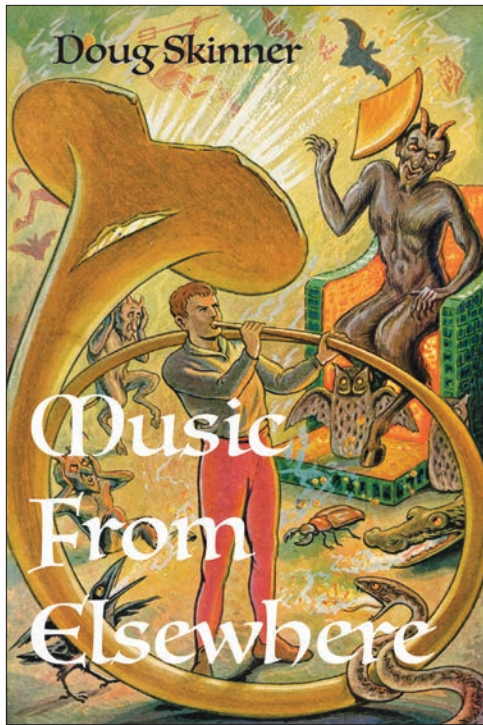


**The first ever publication of Mark E. Smith's screenplay for a horror film, coauthored with Graham Duff.**

May  
5 3/8 x 8, 160 pp.  
12 illus.

**US \$21.95T/\$28.95 CAN paper**  
978-1-913689-18-6

**Distributed for Strange Attractor Press**

*music | cultural studies*

## Music from Elsewhere

Haunting Tunes from the Afterlife, Alien Worlds,  
and Occult Realms

### Doug Skinner

This unique collection of esoteric earworms gathers, and reproduces, music from other worlds. Here you'll find tunes hummed, strummed, and sung by spirits, sprites, and fairies, extraterrestrial elevator music, dreamed ditties, marches for occult ceremonies, secret musical codes and languages, music made by animals, and more.

Each entry contains an explanatory text on its origins and purpose, and also reproduces the musical notation, in facsimile where possible, so that you can play along at home.

An in-depth introductory essay by musician, historian, and collector Doug Skinner rounds out this wondrous musical cabinet of curiosities.

**Doug Skinner** has contributed to the *Fortean Times*, *Cabinet*, *Fate*, *Weirdo*, *Nickelodeon*, and other periodicals. In addition to his books of stories, comics, music, and translations of works by Alphonse Allais, Charles Cros, and Alfred Jarry, he has written many scores for dance and theater, most conspicuously for Bill Irwin's *The Regard of Flight*, which toured for decades. His TV and movie appearances include *Ed*, *Crocodile Dundee II*, several of George Kuchar's videos, and a smattering of commercials.

**A compendium of other  
musics, channeled from the  
spirit world, the fairy kingdom,  
outer space, secret societies,  
and occult lodges.**

April  
9 1/2 x 12 1/2, 184 pp.  
12 illus.

**US \$21.95T/\$28.95 CAN paper**  
978-1-913689-21-6

**Distributed for Strange Attractor Press**

art

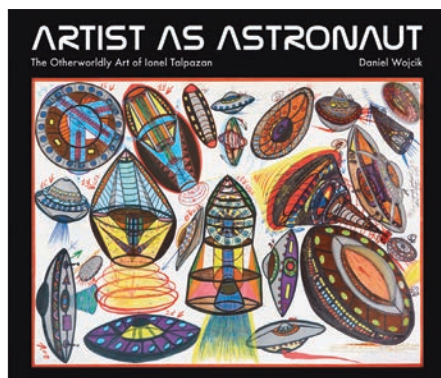
## Artist as Astronaut

The Otherworldly Art of Ionel Talpazan

Daniel Wojcik

**A vibrant collection of artworks by, and interviews with, the Romanian-American visionary artist Ionel Talpazan.**

In the early 1960s, after a terrible beating by his foster mother outside their home in rural Romania, the young Ionel Talpazan



had a life-transforming vision of “a beautiful blue light of energy” that he later believed to be of extraterrestrial origin. Four years after his experience, at age 12, he attempted to depict his numinous encounter;

and began to obsessively draw otherworldly vehicles and celestial energies. Folklorist and art writer Daniel Wojcik has spent many years interviewing Talpazan and documenting his remarkable artistic vision and this book is the culmination of his fascination with this truly otherworldly artist.

In 1987, Talpazan escaped from Ceaușescu’s regime in Romania, swimming the Danube River to Yugoslavia where he was imprisoned and then sent to a refugee camp. He was later granted political asylum in New York City, where he survived by selling his art on the streets and in the flea markets of Manhattan. He produced more than 1,000 works during his lifetime and claimed that his work possessed a scientific as well as artistic value. Despite adversity and poverty, Talpazan’s impulse to create was relentless, ending only with his death in 2015. His work has now achieved international acclaim and is included in important collections and museums throughout the world.

**Daniel Wojcik** has published widely on the topics of apocalyptic belief, visionary culture, art and trauma, subcultures, and vernacular expression. He is the author of *Outsider Art: Visionary Worlds and Trauma*; *The End of the World As We Know It: Faith, Fatalism, and Apocalypse in America*; and *Punk and Neo-Tribal Body*.

June | 8 1/2 x 11, 184 pp. | 50 color illus., 20 b&w illus.

**US \$34.95T/\$45.95 CAN paper**

978-1-913689-25-4

**Distributed for Strange Attractor Press**

literature | occult

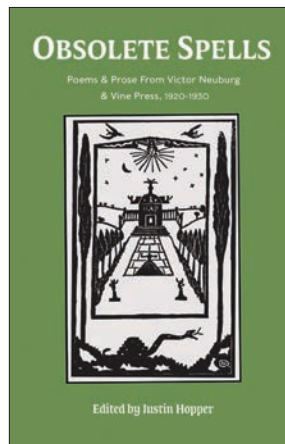
## Obsolete Spells

Poems & Prose from Victor Neuburg & the Vine Press, 1920–1930

edited by Justin Hopper

**A collection of rare pagan poetry and purple prose from the heart of the 1920s counterculture.**

Victor Neuburg is most famous for two things: discovering



Dylan Thomas, and being the man that Aleister Crowley once turned into a camel. *Obsolete Spells* offers another side of Neuburg, through his own poems and the strange books of Vine Press, the hand-operated imprint he ran from his West Sussex cottage between 1920 and 1930.

Neuburg’s youth involved terrifying-yet-farcical years as Crowley’s lover, victim, and magical sidekick. His later period, as editor of the influential “Poet’s Corner” column for the

*Sunday Referee*, made him a key figure in London’s literary scene. But in between, Neuburg acted as a conduit for bohemian writers, arts luminaries, and the sexually adventurous: Peter Warlock set his words to music, singer Marian Anderson lived in his spare room, and he was a fixture at utopian community, the Sanctuary. Through it all, he turned the handle on the Vine Press: books of nature writing and anonymous song; poems and artwork worthy of *The Wicker Man*, side-by-side with a book on cricket.

*Obsolete Spells* offers a selection of Neuburg’s work and from other Vine Press books—over-the-top hymns to the Old Gods, tales from a utopian landscape, and more, most of which have been out of print for a century.

**Justin Hopper** is an American writer based in Britain. His 2019 spoken-word and music album *Chanctonbury Rings* was called “an album of sensual spellcraft” by *Caught by the River*.

June | 5 x 7 1/2, 240 pp. | 16 illus.

**US \$21.95T/\$28.95 CAN paper**

978-1-913689-26-1

**Distributed for Strange Attractor Press**



poetry

## Damascus, Atlantis

Selected Poems

Marie Silkeberg

translated by Kelsi Vanada

**Poems from a major Swedish poet, responding to some of the most wrenching events of recent decades, including globalization and the war in Syria.**

Marie Silkeberg has been a major voice in Swedish poetry since the early 1990s. In these poems, drawn from her books

*Till Damaskus* and *Atlantis*, translated by Kelsi Vanada, she tackles some of the most wrenching events of recent decades—globalization, the escalating war in Syria, and its ongoing aftermath and consequences. The speaker of these poems lives in a reality informed by these events and by an older European history. Taking the standpoint of listener and observer forced to confront the horrors in present tense, the poems question how we share the pain of others,

and how the meeting between different experiences of trauma influences language. The poems are matched with stills from her poetry films, putting word and image in dialogue to explore ruins, cityscapes, the echoes of history, all into the depth of language's power.

**Marie Silkeberg** is a poet, translator, and filmmaker living in Stockholm.

"In *Atlantis*, Silkeberg shows what a crucial poet she is. Not a misplaced word, never a comma that breaks the reading rhythm. Just sit still and let the wonder overtake you."

—**Kristian Lundberg, *Aftonbladet***

May | 6 1/2 x 8 1/4 256 pp. | 30 color illus.

**US \$25.95T/\$34.95 CAN paper**

978-1-949597-11-0

**Distributed for Terra Nova Press**

Spring 2021 | mitpress.mit.edu

music

## Guitar Talk

Conversations with Visionary Players

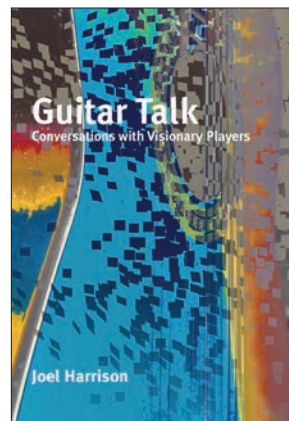
Joel Harrison

**Secrets of master musicians, revealed in conversation.**

*Guitar Talk* offers interviews with fourteen of the most creative guitarists of our time. The book celebrates the enormous range

of approaches and sounds that exist in the modern guitar. The instrument can howl, scrape, scratch, scream, sing, pluck, and soothe. What stands out in this book is not so much the instrument itself but rather the wonderful and idiosyncratic personalities of these bold souls, their sometimes wild, often zigzagging, and ultimately profound journeys toward beauty, meaning, and excellence in their work.

We find out that jazz icon Bill Frisell won a high school



band contest playing R&B tunes, beating out future members of Earth Wind and Fire. We learn which of Nels Cline's compositions he wishes to have played at his funeral. Michael Gregory Jackson recounts painful episodes of racism as he stretched between the chasm of avant jazz, rock, and R&B in the 1980s. Many more revelations, amusements, and philosophies abound from maestros like Ralph Towner, Pat Metheny, Ben Monder, Nguyen Le, Fred Frith, and Mary Halvorson.

**Joel Harrison** has been awarded grants by the Guggenheim Foundation, Chamber Music America, Meet the Composer, New Music USA, Jerome Foundation, NYSCA, Doris Duke, and Flagler Cary Trust. His twenty albums as a leader showcase his prowess as a shapeshifting composer, including works for orchestra, big band, string quartet, solo cello, and percussion, small group jazz, and voice. Harrison is the founder and director of the Alternative Guitar Summit, a yearly festival devoted to new and unusual guitar music.

May | 6 1/2 x 8 1/4 256 pp. | 30 illus.

**US \$27.95T/\$36.95 CAN paper**

978-1-949597-13-4

**Distributed for Terra Nova Press**



## Structure and Synthesis

### Mark Fell

In this extensive anthology, Mark Fell, a pioneering artist known for his sound installations and his musical work solo and as part of SND and Sensate Focus, assembles a collection of diverse materials charting his defiantly unorthodox thinking on time, structure, technology, and the relation between academic and popular electronic music.

An amalgam of workbook and manifesto, featuring a collection of interleaved statements, diagrammatic scores, and instructional texts, *Structure and Synthesis* is a direct engagement with Fell's original thinking and his continual provocations in regard to "experimental" music. Alongside reflections on theory and practice, the volume includes exercises for dismantling musical expertise, habits, and intuitions, documenting Fell's explorations of the peripheries of rhythm, shape, and time in perception and performance.

Long-term collaborator designer Joe Gilmore provides a striking graphic context for Fell's evolving thinking and the methods and structures he has developed through his solo and collaborative work.

**Mark Fell** is a multidisciplinary artist based in Rotherham, UK. Recognized as "one of the most compelling and influential electronic artists in the world," Fell draws on electronic music subcultures, experimental film, contemporary philosophy, and radical politics.

Mark Fell

Structure and Synthesis

**An anthology of pioneering sound artist Mark Fell's work, featuring a collection of interleaved statements, diagrammatic scores, and instructional texts.**

May  
7 1/2 x 9 3/4, 208 pp.  
75 illus.

**US \$29.95T/\$39.95 CAN paper**  
978-1-913029-95-1

**Distributed for Urbanomic**

## Your Computer Is on Fire

edited by **Thomas S. Mullaney**, **Benjamin Peters**,  
**Mar Hicks**, and **Kavita Philip**

**Techno-utopianism is dead: Now is the time to pay attention to the inequality, marginalization, and biases woven into our technological systems.**

This book sounds an alarm: after decades of being lulled into complacency by narratives of technological utopianism and neutrality, people are waking up to the large-scale consequences of Silicon Valley–led technophilia. This book trains a spotlight on the inequality, marginalization, and biases in our technological systems, showing how they are not just minor bugs to be patched, but part and parcel of ideas that assume technology can fix—and control—society.

The essays in *Your Computer Is on Fire* interrogate how our human and computational infrastructures overlap, showing why technologies that centralize power tend to weaken democracy. These practices are often kept out of sight until it is too late to question the costs of how they shape society. From energy-hungry server farms to racist and sexist algorithms, the digital is always IRL, with everything that happens online or algorithmically having effects on our offline lives as well. Each essay proposes paths for action to understand and solve technological problems that are often ignored or misunderstood.

**Thomas S. Mullaney** is Professor of History at Stanford University and the author of *The Chinese Typewriter* (MIT Press). **Benjamin Peters** is Hazel Rogers Associate Professor and Chair of Media Studies at the University of Tulsa and the author of *How Not To Network a Nation* (MIT Press). **Mar Hicks** is Associate Professor of History at Illinois Institute of Technology and the author of *Programmed Inequality* (MIT Press). **Kavita Philip** is Professor of History at the University of California, Irvine, and the author of *Studies in Unauthorized Reproduction* (MIT Press).

March | 7 x 9, 416 pp. | 24 illus.

**US \$35.00X/\$47.00 CAN paper**

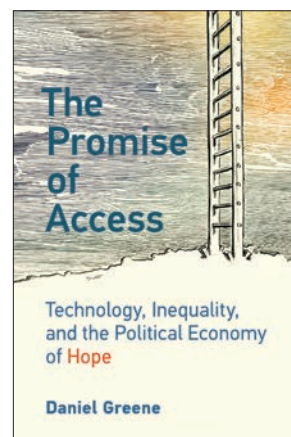
978-0-262-53973-9

## The Promise of Access

Technology, Inequality, and the Political Economy of Hope  
**Daniel Greene**

**Why simple technological solutions to complex social issues continue to appeal to politicians and professionals who should (and often do) know better.**

Why do we keep trying to solve poverty with technology? What makes us feel that we need to learn to code—or else? In *The*



*Promise of Access*, Daniel Greene argues that the problem of poverty became a problem of technology in order to manage the contradictions of a changing economy. Greene shows how the digital divide emerged as a policy problem and why simple technological solutions to complex social issues continue to appeal to politicians and professionals who should (and often do) know better.

Greene shows why it is so hard to get rid of the idea—which he terms the access doctrine—that the problem of poverty can be solved with the right tools and the right skills. This way of thinking is so ingrained that it is adopted by organizations that fight poverty—which often refashion themselves to resemble technology startups. Drawing on years of fieldwork, Greene explores how this plays out in the real world, examining organizational change in technology startups, public libraries, and a charter school in Washington, DC. He finds that as the libraries and school pursue technological solutions, they win praise and funding but also marginalize and alienate the populations they serve. Greene calls for new political alliances that can change the terms on which we understand technology and fight poverty.

**Daniel Greene** is Assistant Professor at the University of Maryland's iSchool, where he is also a Senior Fellow at UMD's Center for the Advanced Study of Communities and Information.

April | 6 x 9, 248 pp.

**US \$30.00X/\$40.00 CAN paper**

978-0-262-54233-3

## Dependent, Distracted, Bored

Affective Formations in Networked Media

**Susanna Paasonen**

**A new approach to understanding the culture of ubiquitous connectivity, arguing that our dependence on networked infrastructure does not equal addiction.**

In this book, Susanna Paasonen takes on a dominant narrative repeated in journalistic and academic accounts for more than a decade: that we are addicted to devices, apps, and sites designed to distract us, that drive us to boredom, with detrimental effect on our capacities to focus, relate, remember, and be. Paasonen argues instead that network connectivity is a matter of infrastructure and necessary for the operations of the everyday. Dependencies on it do not equal addiction but speak to the networks within which our agency can take shape.

Paasonen explores three affective formations—dependence, distraction, and boredom—as key to understanding both the landscape of contemporary networked media and the concerns connected to it. Examining social media platforms, mindfulness apps, clickbaits, self-help resources, research reports, journalistic accounts, academic assessments, and student accounts of momentary mundane technological failure, she finds that the overarching narrative of addicted, distracted, and bored users simply does not account for the multiplicity of things at play. Frustration and pleasure, dependence and sense of possibility, distraction and attention, boredom, interest, and excitement enmesh, oscillate, enable, and depend on one another. Paasonen refutes the idea that authenticity can be associated with lives led “off the grid” and rejects the generational othering and scapegoating of smart devices prescribed by conventional wisdom.

**Susanna Paasonen** is Professor of Media Studies at University of Turku, Finland, and the author of *Carnal Resonance: Affect and Online Pornography* and the coauthor of *NSFW: Sex, Humor, and Risk in Social Media* and *Who's Laughing Now: Feminist Tactics in Social Media*, all published by the MIT Press.

April | 6 x 9, 208 pp. | 8 illus.

**US \$30.00X/\$40.00 CAN cloth**

978-0-262-04567-4

## Putting Skill to Work

How to Create Good Jobs in Uncertain Times

**Nichola Lowe**

**An argument for reimagining skill in a way that can extend economic opportunity to workers at the bottom of the labor market.**

America has a jobs problem—not enough well-paying jobs to go around and not enough clear pathways leading to them.



Skill development is critical for addressing this employment crisis, but there are many unresolved questions about who has skill, how it is attained, and whose responsibility it is to build skills over time. In this book, Nichola Lowe tells the stories of pioneering workforce intermediaries—nonprofits, unions, community colleges—that harness this ambiguity around skill to extend economic opportunity to workers at the bottom of the labor market.

Skill development confers shared value to both workers and employers because it lies at the intersection of their respective interests. Connecting skill to economic inequality, Lowe calls for solutions that push employers to accept greater responsibility for skill development. She examines real-world examples of workplace intermediaries throughout the United States, exploring in detail the work of manufacturing-focused organizations in Chicago, Milwaukee, and a network of community colleges in North Carolina that coordinates training for biopharmaceutical manufacturers.

As workforce intermediaries help employers reinterpret skill, they also convince them to implement inclusive work-based systems that extend family-sustaining wages and better working conditions across the entire workforce. With renewed policy emphasis on skill development, these opportunity-rich solutions can be further expanded—ensuring workers across the entire educational spectrum contribute skills that drive innovation forward and share the gains they generate for the twenty-first century workplace.

**Nichola Lowe** is Professor in City and Regional Planning at the University of North Carolina at Chapel Hill.

March | 6 x 9, 192 pp. | 3 illus.

**US \$35.00X/\$47.00 CAN cloth**

978-0-262-04516-2

## Nuclear Choices for the Twenty-First Century

A Citizen's Guide

Richard Wolfson and Ferenc Dalnoki-Veress

**An authoritative and unbiased guide to nuclear technology and the controversies that surround it.**

Are you for nuclear power or against it? What's the basis of your opinion? Did you know a CT scan gives you some 2 millisieverts of radiation? Do you know how much a millisievert is? Does irradiation make foods safer or less safe? What is the point of a bilateral Russia–US nuclear weapons treaty in a multipolar world? These are nuclear questions that call for nuclear choices, and this book equips citizens to make these choices informed ones. It explains, clearly and accessibly, the basics of nuclear technology and describes the controversies surrounding its use.

The book begins with scientific issues, covering the nature of the atom and its nucleus, nuclear radiation, and nuclear energy. It discusses nuclear power, the operation of nuclear power plants, nuclear accidents, nuclear waste, and alternatives to nuclear energy and considers nuclear weapons: strategies for use and non-use, controlling the spread of these weapons to other countries and terrorist groups, and the prevention of nuclear war. *Nuclear Choices for the Twenty-First Century* offers readers an authoritative and unbiased guide to difficult questions.

**Richard Wolfson** is Benjamin F. Wissler Professor of Physics at Middlebury College. **Ferenc Dalnoki-Veress** is Scientist-in-Residence at the Center for Nonproliferation Studies of the Middlebury Institute of International Studies.

"A comprehensive introduction to nuclear issues written in a simple and engaging style but containing such a wealth of information that experts too can learn interesting things."

—**Frank N. von Hippel, Senior Research Physicist and Professor of Public and International Affairs Emeritus, Program on Science and Global Security, Princeton University**

March | 6 x 9, 488 pp. | 150 figures

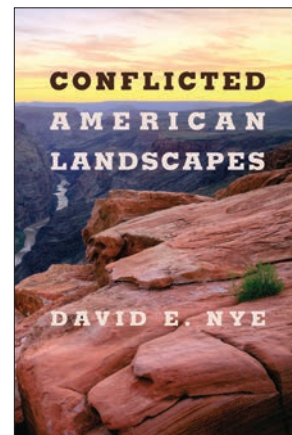
**US \$40.00X/\$54.00 CAN paper**  
978-0-262-54203-6

## Conflicted American Landscapes

David E. Nye

**How conflicting ideas of nature threaten to fracture America's identity.**

Amber waves of grain, purple mountain majesties: Americans invest much of their national identity in sites of natural beauty.



And yet American lands today are torn by conflicts over science, religion, identity, and politics. Creationists believe that the biblical flood carved American landscapes less than ten thousand years ago; environmentalists protest pipelines; Western states argue that the federal government's land policies throttle free enterprise; Native Americans demand protection for sacred sites. In this book, David Nye looks at Americans' irreconcilable ideas about nature.

A landscape is conflicted when different groups have different uses for the same location—for example, when some want to open mining sites that others want to preserve or when suburban development impinges on agriculture. Some landscapes are so degraded from careless use that they become toxic “anti-landscapes.” Nye traces these conflicts to clashing conceptions of nature—ranging from pastoral to Native American to military–industrial—that cannot be averaged into a compromise. Nye argues that today's environmental crisis is rooted in these conflicting ideas about land. Depending on your politics, global warming is either an inconvenient truth or fake news. America's contradictory conceptions of nature are at the heart of a broken national consensus.

**David E. Nye** is Senior Research Fellow at the Charles Babbage Institute at the University of Minnesota and Professor Emeritus of American Studies at the University of Southern Denmark. His other books published by the MIT Press include *American Technological Sublime* and *American Illuminations*. He was awarded the Leonardo da Vinci Medal in 2005 and was knighted by the Queen of Denmark in 2013.

April | 6 x 9, 256 pp. | 40 illus.

**US \$35.00X/\$47.00 CAN paper**  
978-0-262-54208-1

## The Untold Story of the World's Leading Environmental Institution

UNEP at Fifty

**Maria Ivanova**

foreword by John W. McDonald

**The past, present, and possible future of the agency designed to act as “the world’s environmental conscience.”**

The United Nations Environmental Programme (UNEP) was founded in 1972 as a nimble, fast, and flexible entity at the core of the UN system—a subsidiary body rather than a specialized agency. It was intended to be the world’s environmental conscience, an anchor institution that established norms and researched policy, leaving it to other organizations to carry out its recommendations. In this book, Maria Ivanova offers a detailed account of UNEP’s origin and history and a vision for its future. Ivanova counters the common criticism that UNEP was deficient by design, arguing that UNEP has in fact delivered on much (though not all) of its mandate.

Drawing on extensive interviews she conducted with UNEP’s past and present Executive Directors, staff, and two former UN Secretaries-General, Ivanova provides rare insight into the organization’s functioning. She shows that UNEP was able to resolve problems and launch important processes when it had financial and political support. Its failures and limitations came when the environment slipped as a priority, leadership faltered, and connectivity was challenged. UNEP’s fiftieth anniversary, Ivanova argues, presents an opportunity for reinvention. She envisions a future UNEP that is the go-to institution for information on the state of the planet, a normative vision of global environmental governance, and support for domestic environmental agendas.

**Maria Ivanova** is Associate Professor of Global Governance and Director of the Center for Governance and Sustainability at the John W. McCormack Graduate School of Public Policy and Global Studies at the University of Massachusetts Boston. Ivanova is also a visiting scholar at the Climate CoLab at MIT Sloan School of Management.

February | 6 x 9, 376 pp. | 29 illus.

**US \$30.00X/\$40.00 CAN paper**

978-0-262-54210-4

**One Planet series**

## Making Games

The Politics and Poetics of Game Creation Tools

**Stefan Werning**

**An argument that production tools shape the aesthetics and political economy of games as an expressive medium.**

In *Making Games*, Stefan Werning considers the role of tools (primarily but not exclusively software), their design affordances, and the role they play as sociotechnical actors. Drawing on a wide variety of case studies, Werning argues that production tools shape the aesthetics and political economy of games as an expressive medium. He frames game-making as a (meta)game in itself and shows that tools, like games, have their own “procedural rhetoric” and should not always be conceived simply in terms of optimization and best practices.

Considering tools conceptually rather than examining the function of particular tools, Werning offers a new way to think about game development. He employs an expansive definition of tools, outlining four characteristics: tool use occurs all across the value chain of the digital games industry, not just in game creation; tools are manipulatable and shareable objects; tools shape the relationships between different stakeholders; and tools meaningfully frame the purpose for which they are intended. Werning develops this theoretical framework through a series of “tool essays” that reaffirm the direct connection between playing and making games, covering such topics as metaphors of control, tool fandom, playful appropriation of tools, worldbuilding, and the subversive use of character customization tools. Finally, he calls for evocative tool design, envisioning games not just as products but as a form of expression and reflection.

**Stefan Werning** is Associate Professor for Digital Media and Game Studies at Utrecht University. He has worked in the digital games industry, most notably at Codemasters and Nintendo of Europe.

February | 5 3/8 x 8, 176 pp. | 18 illus.

**US \$25.00X/\$34.00 CAN cloth**

978-0-262-04483-7

**Playful Thinking series**



## A Citizen's Guide to Artificial Intelligence

John Zerilli

with John Danaher, James Maclaurin, Colin Gavaghan, Alistair Knott, Joy Liddicoat, and Merel Noorman

**A concise but informative overview of AI ethics and policy.**

Artificial intelligence, or AI for short, has generated a staggering amount of hype in the past several years. Is it the game-changer it's been cracked up to be? If so, how is it changing the game? How is it likely to affect us as customers, tenants, aspiring homeowners, students, educators, patients, clients, prison inmates, members of ethnic and sexual minorities, and voters in liberal democracies? Authored by experts in fields ranging from computer science and law to philosophy and cognitive science, this book offers a concise overview of moral, political, legal, and economic implications of AI. It covers the basics of AI's latest permutation, machine learning, and considers issues such as transparency, bias, liability, privacy, and regulation.

Both business and government have integrated algorithmic decision support systems into their daily operations, and the book explores the implications for our lives as citizens. For example, do we take it on faith that a machine knows best in approving a patient's health insurance claim or a defendant's request for bail? What is the potential for manipulation by targeted political ads? How can the processes behind these technically sophisticated tools ever be transparent? The book discusses such issues as statistical definitions of fairness, legal and moral responsibility, the role of humans in machine learning decision systems, "nudging" algorithms and anonymized data, the effect of automation on the workplace, and AI as both regulatory tool and target.

**John Zerilli** is a Research Fellow at the Leverhulme Centre for the Future of Intelligence in the University of Cambridge and from 2021 a Leverhulme Trust Fellowship recipient at the University of Oxford.

February | 6 x 9, 232 pp.

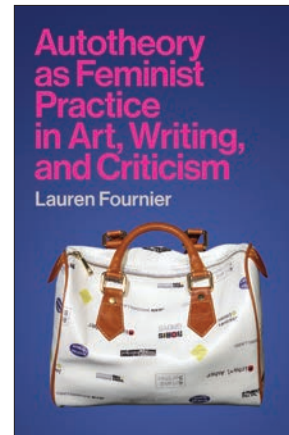
**US \$40.00X/\$54.00 CAN cloth**  
978-0-262-04481-3

## Autotheory as Feminist Practice in Art, Writing, and Criticism

Lauren Fournier

**Autotheory—the commingling of theory and philosophy with autobiography—as a mode of critical artistic practice indebted to feminist writing and activism.**

In the 2010s, the term "autotheory" began to trend in literary spheres, where it was used to describe books in which memoir and



autobiography fused with theory and philosophy. In this book, Lauren Fournier extends the meaning of the term, applying it to other disciplines and practices. Fournier provides a long-awaited account of autotheory, situating it as a mode of contemporary, post-1960s artistic practice that is indebted to feminist writing, art, and activism. Investigating a series of works by writers and artists including Chris Kraus and Adrian Piper, she considers the politics, aesthetics, and ethics of autotheory.

Fournier argues that the autotheoretical turn signals the tenuousness of illusory separations between art and life, theory and practice, work and the self—divisions long blurred by feminist artists and scholars. Autotheory challenges dominant approaches to philosophizing and theorizing while enabling new ways for artists and writers to reflect on their lives. She argues that Kraus's 1997 *I Love Dick* marked the emergence of a newly performative, post-memoir "I"; recasts Piper's 1971 performance work *Food for the Spirit* as autotheory; considers autotheory as critique; examines practices of citation in autotheoretical work, including Maggie Nelson's *The Argonauts*; and looks at the aesthetics and ethics of disclosure and exposure, exploring the nuanced feminist politics around autotheoretical practices and such movements as #MeToo. Fournier formulates autotheory as a reflexive movement, connecting thinking, making art, living, and theorizing.

**Lauren Fournier**, a writer, independent curator, and artist, teaches critical theory, art history, and artists' writing at the University of Toronto, where she is a postdoctoral fellow in visual studies.

February | 6 x 9, 456 pp. | 48 color illus., 6 b&w illus.

**US \$35.00X/\$47.00 CAN cloth**  
978-0-262-04556-8

## Rethinking Cancer

A New Paradigm for the Postgenomics Era

edited by **Bernhard Strauss, Marta Bertolaso, Ingemar Ernberg, and Mina J. Bissell**

**Leading scientists argue for a new paradigm for cancer research, proposing a complex systems view of cancer supported by empirical evidence.**

Current consensus in cancer research explains cancer as a disease caused by specific mutations in certain genes. After dramatic advances in genome sequencing, never before have we known so much about the individual cancer cell—and yet never before has it been so unclear how to use this knowledge for treatment success. In this volume, leading researchers argue for a new theory framework for understanding and treating cancer. The contributors propose a complex systems view of cancer, presenting conceptual building blocks for a new research paradigm supported by empirical evidence.

The contributors first discuss the new research framework in terms of theoretical foundations and then take up the relevance of a systems approach, reviewing such topics as nonlinearity, recurrence after treatment, the cellular attractor concept, network theory, and non-coding DNA—the “dark matter” of our genome. They address the temporality of cancer progression, drawing on evolutionary theory and clinical experience. Finally, they cover the dominant role of the tissue microenvironment in cancer, analyzing topics including altered metabolic pathways, the disease-defining influence on metastasis, and the interconnectedness of different environmental niches across levels of organization.

**Bernhard Strauss** is Senior Research Associate in the Department of Biochemistry at the University of Cambridge. **Marta Bertolaso** is Associate Professor of Philosophy of Science in the Faculty of Engineering at Università Campus Bio-Medico in Rome. **Ingemar Ernberg** is Professor of Tumor Biology at the Department of Microbiology, Tumor, and Cell Biology at the Karolinska Institutet in Stockholm. **Mina J. Bissell** is Distinguished Scientist in the Biological Systems and Engineering Division at Lawrence Berkeley National Laboratory.

### Contributors

David Basanta, Marta Bertolaso, Kimberly J. Bussey, Luca V. Cappelli, Peter Csermely, Paul C.W. Davies, Ingemar Ernberg, Sui Huang, Giorgio Inghirami, Christoph A. Klein, Courtney König, Andriy Marusyk, Thea J. Newman, Larry Norton, Roger Oria, Laxmi Parida, Jacques Pouyssegur, Kahn Rhrissorakrai, Jacob Scott, Bernhard Strauss, Dhruv Thakar, Emmy W. Verschuren, Valerie M. Weaver, Liron Yoffe, Maša Ždravlević

April | 7 x 9, 456 pp. | 34 illus.

**US \$60.00X/\$79.00 CAN cloth**  
978-0-262-04521-6

**Vienna Series in Theoretical Biology**

## How Molecular Forces and Rotating Planets Create Life

The Emergence and Evolution of Prokaryotic Cells

**Jan Spitzer**

**A reconceptualization of origins research that exploits a modern understanding of non-covalent molecular forces that stabilize living prokaryotic cells.**

Scientific research into the origins of life remains exploratory and speculative. Science has no definitive answer to the biggest questions—“What is life?” and “How did life begin on earth?” In this book, Jan Spitzer reconceptualizes origins research by exploiting a modern understanding of non-covalent molecular forces and covalent bond formation—a physicochemical approach propounded originally by Linus Pauling and Max Delbrück. Spitzer develops the Pauling–Delbrück premise as a physicochemical jigsaw puzzle that identifies key stages in life’s emergence, from the formation of first oceans, tidal sediments, and proto-biofilms to progenotes, proto-cells and the first cellular organisms.

Spitzer argues that non-covalent molecular forces, acting in cycling geochemical processes, bring about phase separations—the creation of purified, lower entropy, potentially living biological matter. Geochemical cycling processes—diurnal solar radiation and tidal hydration-dehydration—underpin life’s emergence and evolution. After presenting a physicochemical view of how non-covalent molecular forces stabilize a bacterial cell during its cell cycle, Spitzer assembles the puzzle pieces into a working provisional picture of life’s emergence. He classifies early Archaean evolution as micro-evolution, meso-evolution, and macro-evolution according to physicochemical mechanisms that can modify the nucleoid during a prokaryotic cell cycle. Finally, he describes some experimental ideas, based on cyclically driven processes.

**Jan Spitzer**, a PhD in Physical Chemistry from Queen Elizabeth College at the University of London, has had a long career in chemistry and polymer science, as Associate Professor, and Research and Development Manager in synthetic latex industry. He is the author or coauthor of numerous peer-reviewed papers, technical articles, and book chapters.

February | 6 x 9, 248 pp. | 21 illus.

**US \$60.00X/\$79.00 CAN cloth**  
978-0-262-04557-5

**Vienna Series in Theoretical Biology**

## Cognitive Choice Modeling

Zheng Joyce Wang and Jerome R. Busemeyer

**The emerging interdisciplinary field of cognitive choice models integrates theory and recent research findings from both decision process and choice behavior.**

Cognitive decision processes provide the interface between the environment and brain, enabling choice behavior, and the basic cognitive mechanisms underlying decision processes are fundamental to all fields of human activity. Yet cognitive processes and choice processes are often studied separately, whether by decision theorists, consumer researchers, or social scientists. In *Cognitive Choice Modeling*, Zheng Joyce Wang and Jerome Busemeyer introduce a new cognitive modeling approach to the study of human choice behavior. Integrating recent research findings from both cognitive science and choice behavior, they lay the groundwork for the emerging interdisciplinary field of cognitive choice modeling.

The authors focus on individual choice behavior. They begin with a survey of decision science, covering such areas as utility theory, random utility models, and statistical methods for estimating and comparing choice models. They then introduce recent cognitive psychology theories on signal detection and sequential sampling in decision-making. They cover applications of sequential sampling models to both evidence-based and value-based decisions. Their discussion of recent theoretical findings on the integration of learning and choice includes the differences between model-free and model-based learning theories. Having presented the foundational behavioral findings, they move on to the rapid progress being made toward understanding the relations between cognitive choice models and the neural mechanisms underlying choice behavior. Finally, they examine new research directions, including process models based on quantum probability principles.

**Zheng Joyce Wang** is Professor in the School of Communication at the Ohio State University, where she directs the Communication and Psychophysiology Lab. **Jerome R. Busemeyer** is Distinguished Professor of Psychological and Brain Sciences at Indiana University Bloomington.

March | 6 x 9, 300 pp. | 47 illus.

**US \$65.00X/\$86.00 CAN cloth**  
978-0-262-04496-7

## Classification in the Wild

The Science and Art of Transparent Decision Making

Konstantinos V. Katsikopoulos, Özgür Şimşek,  
Marcus Buckmann, and Gerd Gigerenzer

**Rules for building formal models that use fast-and-frugal heuristics, extending the psychological study of classification to the real world of uncertainty.**

This book focuses on classification—allocating objects into categories—“in the wild,” in real-world situations and far from the certainty of the lab. In the wild, unlike in typical psychological experiments, the future is not knowable and uncertainty cannot be meaningfully reduced to probability. Connecting the science of heuristics with machine learning, the book shows how to create formal models using classification rules that are simple, fast, and transparent and that can be as accurate as mathematically sophisticated algorithms developed for machine learning.

The authors—whose individual expertise ranges from empirical psychology to mathematical modeling to artificial intelligence and data science—offer real-world examples, including voting, HIV screening, and magistrate decision making; present an accessible guide to inducing the models statistically; compare the performance of such models to machine learning algorithms when applied to problems that include predicting diabetes or bank failure; and discuss conceptual and historical connections to cognitive psychology. Finally, they analyze such challenging safety-related applications as decreasing civilian casualties in checkpoints and regulating investment banks.

**Konstantinos V. Katsikopoulos** is Associate Professor (Reader) of Behavioural Operations at the Southampton Business School where he is also Head of Research of the Department of Decision Analytics and Risk. **Özgür Şimşek** is Senior Lecturer in Machine Learning in the Department of Computer Science at the University of Bath, where she is also Deputy Director of the Institute for Mathematical Innovation. **Marcus Buckmann** is Senior Data Research Analyst at the Advanced Analytics Division of the Bank of England. **Gerd Gigerenzer** is Director of the Harding Center for Risk Literacy at the Max Planck Institute for Human Development in Berlin and Partner in Simply Rational—The Institute for Decisions.

February | 6 x 9, 200 pp. | 38 illus.

**US \$35.00X/\$47.00 CAN cloth**  
978-0-262-04515-5

## Deliberate Ignorance

Choosing Not to Know

edited by **Ralph Hertwig** and **Christoph Engel**

**Psychologists, economists, historians, computer scientists, sociologists, philosophers, and legal scholars explore the conscious choice not to seek information.**

The history of intellectual thought abounds with claims that knowledge is valued and sought, yet individuals and groups often choose not to know. We call the conscious choice not to seek or use knowledge (or information) deliberate ignorance. When is this a virtue, when is it a vice, and what can be learned from formally modeling the underlying motives? On which normative grounds can it be judged? Which institutional interventions can promote or prevent it? In this book, psychologists, economists, historians, computer scientists, sociologists, philosophers, and legal scholars explore the scope of deliberate ignorance.

Drawing from multiple examples, including the right not to know in genetic testing, collective amnesia in transformational societies, blind orchestral auditions, and “don’t ask don’t tell” policies, the contributors offer novel insights and outline avenues for future research into this elusive yet fascinating aspect of human nature.

**Ralph Hertwig** is Director at the Max Planck Institute of Human Development in Berlin and Honorary Professor of Psychology at the Humboldt and Free Universities in Berlin. **Christoph Engel** is Director at the Max Planck Institute for Research on Collective Goods in Bonn, and Professor of Law at the Universities of Bonn and Rotterdam.

“What do people want to know? This is one of the deepest and most fascinating questions in all of social science. Focusing on deliberate ignorance, Hertwig and Engel offer new and fundamental answers to that question. This book is a major step forward.”

—**Cass R. Sunstein, Robert Walmsley University Professor, Harvard University, and author of *Too Much Information***

February | 6 x 9, 396 pp. | 15 illus.

**US \$45.00X/\$60.00 CAN paper**

978-0-262-04559-9

**Strüngmann Forum Reports**

## Variability and Consistency in Early Language Learning

The Wordbank Project

**Michael C. Frank, Mika Braginsky, Daniel Yurovsky, and Virginia A. Marchman**

**A data-driven exploration of children’s early language learning across different languages, providing an empirical reference and a new theoretical framework.**

This book examines variability and consistency in children’s language learning across different languages and cultures, drawing on Wordbank, an open database with data from more than 75,000 children and twenty-nine languages or dialects. This big data approach makes the book the most comprehensive cross-linguistic analysis to date of early language learning. Moreover, its data-driven picture of which aspects of language learning are consistent across languages suggests constraints on the nature of children’s language learning mechanisms. The book provides both a theoretical framework for scholars of language learning, language, and human cognition, and a resource for future research.

Wordbank archives data from parents’ reports about their children’s language learning using instruments in the MacArthur-Bates Communicative Development Inventory (CDI); its goal is to make CDI data available for study and analysis. After an overview of practical and theoretical issues, each of the book’s empirical chapters applies a particular analysis to the Wordbank dataset, considering such topics as vocabulary size, demographic variation, syntactic and semantic categories, and the relationship between vocabulary growth and grammar. The final three chapters draw on the preceding chapters to quantify variability and consistency, consider the bird’s eye view of language acquisition afforded by the data, and reflect on methodology.

**Michael C. Frank** is David and Lucile Packard Professor of Human Biology and the Director of the Symbolic Systems Program at Stanford University. **Mika Braginsky** is a PhD candidate in the Department of Brain and Cognitive Science at MIT. **Daniel Yurovsky** is Assistant Professor of Psychology at Carnegie Mellon University. **Virginia A. Marchman** is Research Scientist at Stanford University.

March | 7 x 9, 424 pp. | 175 illus.

**US \$75.00X/\$99.00 CAN cloth**

978-0-262-04510-0



## Linguistics for the Age of AI

Marjorie McShane and Sergei Nirenburg

**A human-inspired, linguistically sophisticated model of language understanding for intelligent agent systems.**

One of the original goals of artificial intelligence research was to endow intelligent agents with human-level natural language capabilities. Recent AI research, however, has focused on applying statistical and machine learning approaches to big data rather than attempting to model what people do and how they do it. In this book, Marjorie McShane and Sergei Nirenburg return to the original goal of recreating human-level intelligence in a machine. They present a human-inspired, linguistically sophisticated model of language understanding for intelligent agent systems that emphasizes meaning—the deep, context-sensitive meaning that a person derives from spoken or written language.

With *Linguistics for the Age of AI*, McShane and Nirenburg offer a roadmap for creating language-endowed intelligent agents (LEIAs) that can understand, explain, and learn. They describe the language-understanding capabilities of LEIAs from the perspectives of cognitive modeling and system building, emphasizing “actionability”—which involves achieving interpretations that are sufficiently deep, precise, and confident to support reasoning about action. After detailing their microtheories for topics such as semantic analysis, basic coreference, and situational reasoning, McShane and Nirenburg turn to agent applications developed using those microtheories and evaluations of a LEIA’s language understanding capabilities.

McShane and Nirenburg argue that the only way to achieve human-level language understanding by machines is to place linguistics front and center, using statistics and big data as contributing resources. They lay out a long-term research program that addresses linguistics and real-world reasoning together, within a comprehensive cognitive architecture.

**Marjorie McShane** and **Sergei Nirenburg** are on the faculty of the Cognitive Science Department at Rensselaer Polytechnic Institute.

March | 7 x 9, 464 pp.

**US \$75.00X/\$99.00 CAN cloth**  
978-0-262-04558-2

## The Working Mind

Meaning and Mental Attention in Human Development

Juan Pascual-Leone and Janice M. Johnson

**A general organismic-causal theory that explicates working memory and executive function developmentally, clarifying the nature of human intelligence.**

In *The Working Mind*, Juan Pascual-Leone and Janice Johnson propose a general organismic-causal theory that explicates working memory and executive function developmentally and by doing so clarifies the nature of human intelligence. Pascual-Leone and Johnson explain “from within” (that is, from a subject’s own processing perspective) cognitive developmental stages of growth, describing key causal factors that can account for the emergence of the working mind as a functional totality. Among these factors is a maturationally growing mental attention.

After reviewing meaning-driven processes and constructivist knowledge principles that underlie what Pascual-Leone and Johnson term their Theory of Constructive Operators (TCO), they propose the TCO as a developmental and neuropsychological approach to human cognitive and affective processes and their development. They present a novel method of mental task analysis that generates from-within process models of subjects’ attempts to solve specific tasks. They provide an interpretation of brain semiotic processes that deploys TCO in functionally distinct brain locations. Finally, they show how TCO explicates complex human issues including consciousness, the self, the will, motivation, and individual differences, with applications in education, psychotherapy, and cognitive neuropsychology.

**Juan Pascual-Leone** is Professor of Psychology Emeritus and Senior Scholar at York University in Toronto. Once a student of Jean Piaget, he is a founder of neo-Piagetian approaches to cognitive development. **Janice M. Johnson** is Associate Professor Emeritus and Senior Scholar at York University. Pascual-Leone and Johnson are Codirectors of the Developmental Processes Laboratory at York University.

April | 7 x 9, 408 pp. | 40 illus.

**US \$60.00X/\$79.00 CAN cloth**  
978-0-262-04555-1

## Knowledge Graphs

Fundamentals, Techniques, and Applications

**Mayank Kejriwal, Craig A. Knoblock, and Pedro Szekely**

**A rigorous and comprehensive textbook covering the major approaches to knowledge graphs, an active and interdisciplinary area within artificial intelligence.**

The field of knowledge graphs, which allows us to model, process, and derive insights from complex real-world data, has emerged as an active and interdisciplinary area of artificial intelligence over the last decade, drawing on such fields as natural language processing, data mining, and the semantic web. Current projects involve predicting cyberattacks, recommending products, and even gleaning insights from thousands of papers on COVID-19. This textbook offers rigorous and comprehensive coverage of the field. It focuses systematically on the major approaches, both those that have stood the test of time and the latest deep learning methods.

After presenting introductory and background material, the text covers techniques for constructing knowledge graphs, adding new knowledge to (or refining old knowledge in) knowledge graphs, and accessing (or querying) knowledge graphs. Finally, the book describes specific knowledge graph ecosystems, with each ecosystem corresponding to several real-world applications and case studies. Each chapter concludes with a software and resources section as well as bibliographic notes that suggest required reading. End-of-chapter exercises, 130 in all, represent various levels of abstraction.

**Mayank Kejriwal** is Research Assistant Professor at the University of Southern California's Viterbi School of Engineering. **Craig A. Knoblock** is Executive Director of the Information Sciences Institute at the University of Southern California, where he is also Research Professor of both Computer Science and Spatial Sciences as well as Director of the Data Science Program.

**Pedro Szekely** is Principal Scientist and Director of the Center on Knowledge Graphs at the University of Southern California's Information Sciences Institute.

March | 7 x 9, 568 pp. | 52 illus.

**US \$55.00X/\$73.00 CAN cloth**

978-0-262-04509-4

**Adaptive Computation and Machine Learning series**

## Introduction to Quantum Algorithms via Linear Algebra

second edition

**Richard J. Lipton and Kenneth W. Regan**

**The second edition of a textbook that explains quantum computing in terms of elementary linear algebra, requiring no background in physics.**

This introduction to quantum algorithms is concise but comprehensive, covering many key algorithms. It is mathematically rigorous but requires minimal background and assumes no knowledge of quantum theory or quantum mechanics. The book explains quantum computation in terms of elementary linear algebra; it assumes the reader will have some familiarity with vectors, matrices, and their basic properties, but offers a review of the relevant material from linear algebra. By emphasizing computation and algorithms rather than physics, it makes quantum algorithms accessible to students and researchers in computer science who have not taken courses in quantum physics or delved into fine details of quantum effects, apparatus, circuits, or theory.

In this second edition, part I, on essential algorithms, provides additional exercises and solved problems. Part II, on advanced algorithms, offers two new chapters: one provides students with a deeper understanding of quantum physics, and includes a discussion of recent experiments claiming “quantum supremacy”; the other new chapter focuses on the Harrow-Hassidim-Lloyd (HHL) algorithm for linear algebra. Additional material touches on some of the philosophical issues involved in quantum mechanics, addressing the divide between quantum and classical. This edition is more versatile than the first edition (published as *Quantum Algorithms via Linear Algebra: A Primer*), with part I suitable for advanced undergraduates and part II, now including notation and tools used by practitioners, suitable for graduate students.

**Richard J. Lipton** is Frederick G. Story Professor of Computing (Emeritus) at Georgia Institute of Technology. **Kenneth W. Regan** is Associate Professor in the Department of Computer Science and Engineering at University at Buffalo, the State University of New York.

April | 6 x 9, 304 pp. | 20 illus.

**US \$45.00X/\$60.00 CAN cloth**

978-0-262-04525-4

## Ideas That Created the Future

Classic Papers of Computer Science

edited by Harry R. Lewis

**Classic papers by thinkers ranging from Aristotle and Leibniz to Norbert Wiener and Gordon Moore that chart the evolution of computer science.**

*Ideas That Created the Future* collects forty-six classic papers in computer science that map the evolution of the field. It covers all aspects of computer science: theory and practice, architectures and algorithms, and logic and software systems, with an emphasis on the period of 1936–1980 but also including important earlier work. Offering papers by thinkers ranging from Aristotle and Leibniz to Alan Turing and Norbert Wiener, the book documents the discoveries and inventions that created today’s digital world. A brief essay by volume editor Harry Lewis, offering historical and intellectual context, accompanies each paper.

Readers will learn that we owe to Aristotle the realization that fixed rules of logic can apply to different phenomena—that logic provides a general framework for reasoning—and that Leibniz recognized the merits of binary notation. They can read Ada Lovelace’s notes on L. F. Menabrea’s sketch of an analytical engine, George Boole’s attempt to capture the rules of reason in mathematical form, David Hilbert’s famous 1900 address, “Mathematical Problems,” and Alan Turing’s illumination of a metamathematical world. Later papers document the “Cambrian era” of 1950s computer design, Maurice Wilkes’s invention of microcode, Grace Hopper’s vision of a computer’s “education,” Ivan Sutherland’s invention of computer graphics at MIT, Whitfield Diffie and Martin Hellman’s pioneering work on encryption, and much more. Lewis’s guided tour of a burgeoning field is especially welcome at a time when computer education is increasingly specialized.

**Harry R. Lewis** is Gordon McKay Research Professor of Computer Science at Harvard University.

February | 7 x 9, 520 pp. | 120 illus.

**US \$60.00X/\$79.00 CAN paper**

978-0-262-04530-8

## Verifying Cyber-Physical Systems

A Path to Safe Autonomy

Sayan Mitra

**A graduate-level textbook that presents a unified mathematical framework for modeling and analyzing cyber-physical systems, with a strong focus on verification.**

Verification aims to establish whether a system meets a set of requirements. For such cyber-physical systems as driverless cars, autonomous spacecraft, and air-traffic management systems, verification is key to building safe systems with high levels of assurance. This graduate-level textbook presents a unified mathematical framework for modeling and analyzing cyber-physical systems, with a strong focus on verification. It distills the ideas and algorithms that have emerged from more than three decades of research and have led to the creation of industrial-scale modeling and verification techniques for cyber-physical systems.

The book discusses such computer science concepts as undecidability and abstractions, alongside concepts from control theory including multiple Lyapunov functions and barrier certificates, all within a unified mathematical language. It explains algorithms for reachability analysis, counter-example guided abstraction refinement, and data-driven verification, as well as the key data structures that enable their effective implementation. Other topics include invariants, deductive verification, progress analysis, sensitivity analysis, simulation relations, fairness, model checking, satisfiability modulo theories, temporal logics, compositional reasoning, convergence analysis, asynchronous processes, and verification of black-box systems.

The book provides more than twenty examples of cyber-physical verification, ranging from conceptual models to advanced driving-assist systems. Each chapter offers exercise problems; supporting materials, including slides, simulation code, additional exercises, and solutions are available on the book’s website.

**Sayan Mitra** is Professor in the Department of Electrical and Computer Engineering at the University of Illinois at Urbana–Champaign.

February | 7 x 9, 312 pp. | 80 illus.

**US \$60.00X/\$79.00 CAN cloth**

978-0-262-04480-6

**Cyber Physical Systems series**

## Information-Driven Planning and Control

Silvia Ferrari and Thomas A. Wettergren

**A unified framework for developing planning and control algorithms for active sensing, with examples of applications for modern sensor technologies.**

Active sensor systems, increasingly vital to such applications as unmanned vehicles, mobile robots, and environmental monitoring, are characterized by a high degree of autonomy, reconfigurability, and redundancy. This book is the first to offer a unified framework for the development of planning and control algorithms for active sensing with multiple agents, with application examples including cameras and acoustic and gas sensors. The methods presented are characterized as information-driven because their goal is to optimize the value of information, rather than to optimize traditional guidance and navigation objectives.

The book explains relevant background in systems and control, graph, probability, and information theories; develops an integrated mathematical representation, or model, of system components and their interactions; and shows how motion planning, network, and control theoretic algorithms can be used to manage agent mode, position, and motion. It describes information-driven placement, navigation, and control methods that can be used to allocate limited resources so that sensing objectives, including coverage, detection, classification, and tracking, are optimized. These systems are able to process and learn from data, adapt autonomously to unexpected situations, self-organize to meet multiple objectives, and evolve over time to exhibit greater functionality in changing and complex environments. The book's unified notation and treatment allows direct comparison and parallel implementations of methods and algorithms drawn from disparate communities and disciplines.

**Silvia Ferrari** is John Brancaccio Professor of Mechanical and Aerospace Engineering in the Sibley School of Mechanical and Aerospace Engineering at Cornell University. **Thomas A. Wettergren** is Research Scientist in Applied Mathematics and Adjunct Professor at the University of Rhode Island.

June | 7 x 9, 584 pp. | 164 illus.

**US \$75.00X/\$99.00 CAN cloth**  
978-0-262-04542-1

**Cyber Physical Systems Series**

## Software Design for Flexibility

How to Avoid Programming Yourself into a Corner

Chris Hanson and Gerald Jay Sussman

**Strategies for building systems that can be adapted for new situations with only minor programming modifications.**

Time pressures encourage programmers to write code that works well for a narrow purpose, with no room to grow. But the best systems are evolvable; they can be adapted for new situations by adding code, rather than changing the existing code. The authors describe techniques they have found effective—over their combined 100-plus years of programming experience—that will help programmers avoid programming themselves into corners.

The authors explore ways to enhance flexibility by:

- Organizing systems using combinators to compose mix-and-match parts, ranging from small functions to whole arithmetics, with standardized interfaces
- Augmenting data with independent annotation layers, such as units of measurement or provenance
- Combining independent pieces of partial information using unification or propagation
- Separating control structure from problem domain with domain models, rule systems and pattern matching, propagation, and dependency-directed backtracking
- Extending the programming language, using dynamically extensible evaluators

Some of the techniques, such as dynamically extensible generic procedures, are extremely powerful but potentially dangerous. Each chapter includes exercises. Code is written in Scheme, a simple dialect of Lisp. Examples range from astronomy to automatic differentiation to an adventure game.

**Chris Hanson** is on the technical staff at Datera. He was at MIT for many years, where he was the principal author of the MIT/GNU Scheme system. He also spent ten years at Google. **Gerald Jay Sussman** is Panasonic Professor of Electrical Engineering at MIT. He is the coauthor of *Structure and Interpretation of Computer Programs*, *Structure and Interpretation of Classical Mechanics*, and *Functional Differential Geometry* (all published by the MIT Press).

March | 6 x 9, 448 pp.

**US \$55.00X/\$73.00 CAN cloth**  
978-0-262-04549-0



## How Humans Judge Machines

César A. Hidalgo, Diana Orghian, Jordi Albo-Canals,  
Filipa de Almeida, and Natalia Martin

**How people judge humans and machines differently, in scenarios involving natural disasters, labor displacement, policing, privacy, algorithmic bias, and more.**

How would you feel about losing your job to a machine? How about a tsunami alert system that fails? Would you react differently to acts of discrimination depending on whether they were carried out by a machine or by a human? What about public surveillance?

*How Humans Judge Machines* compares people's reactions to actions performed by humans and machines. Using data collected in dozens of experiments, this book reveals the biases that permeate human-machine interactions.

Are there conditions in which we judge machines unfairly? Is our judgment of machines affected by the moral dimensions of a scenario? Is our judgment of machine correlated with demographic factors such as education or gender?

César Hidalgo and colleagues use hard science to take on these pressing technological questions. Using randomized experiments, they create revealing counterfactuals and build statistical models to explain how people judge artificial intelligence and whether they do it fairly. Through original research, *How Humans Judge Machines* bring us one step closer to understanding the ethical consequences of AI.

Written by **César A. Hidalgo**, the author of *Why Information Grows* and coauthor of *The Atlas of Economic Complexity* (MIT Press), together with a team of social psychologists (**Diana Orghian** and **Filipa de Almeida**) and roboticists (**Jordi Albo-Canals**), *How Humans Judge Machines* presents a unique perspective on the nexus between AI and society. Anyone interested in the future of AI ethics should explore the experiments and theories in *How Humans Judge Machines*.

February | 7 x 9, 224 pp. | 32 illus.

**US \$35.00X/\$47.00 CAN cloth**

978-0-262-04552-0

## Introduction to Computation and Programming Using Python

With Application to Computational Modeling

third edition

**John V. Guttag**

**The new edition of an introduction to the art of computational problem solving using Python.**

This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries, including numpy, matplotlib, random, pandas, and sklearn. It provides students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of data science for using computation to model and interpret data as well as substantial material on machine learning.

The book is based on an MIT course and was developed for use not only in a conventional classroom but in a massive open online course (MOOC). It contains material suitable for a two-semester introductory computer science sequence.

This third edition has expanded the initial explanatory material, making it a gentler introduction to programming for the beginner, with more programming examples and many more “finger exercises.” A new chapter shows how to use the pandas package for analyzing time series data. All the code has been rewritten to make it stylistically consistent with the PEP 8 standards. Although it covers such traditional topics as computational complexity and simple algorithms, the book focuses on a wide range of topics not found in most introductory texts, including information visualization, simulations to model randomness, computational techniques to understand data, and statistical techniques that inform (and misinform) as well as two related but relatively advanced topics: optimization problems and dynamic programming. The book also includes a Python 3 quick reference guide.

**John V. Guttag** is Dugald C. Jackson Professor of Computer Science and Electrical Engineering at MIT.

March | 7 x 9, 664 pp. | 140 illus.

**US \$55.00X/\$73.00 CAN paper**

978-0-262-54236-4

## Victor Papanek

Designer for the Real World

**Alison J. Clarke**

**The history and controversial roots of the social design movement, explored through the life and work of its leading pioneer, Victor Papanek.**

In *Victor Papanek: Designer for the Real World*, Alison Clarke explores the social design movement through the life of its leading pioneer, the Austrian American designer, theorist, and activist Victor Papanek. Papanek's 1971 best seller, *Design for the Real World: Human Ecology and Social Change* has been translated into 22 languages and never fallen out of print. Its politics of social design, anti-corporatism, and environmental sustainability have found renewed pertinence in the twenty-first century and dominate the agendas of design schools today. Drawing extensively on previously unexplored archival sources, Clarke uncovers and contextualizes the movement's controversial origins and contradictions.

Within the fields of design and environmental studies, Papanek is celebrated as a guru of alternative economics and progressive design. Yet Clarke overturns the notion that socially responsible and sustainable design emerged from the counter-culture and alternative politics of the late 1960s and 1970s. Instead, she exposes its roots in the late Cold War technocratic culture and policies of US military and development interventionism. She examines the shift away from industrial design as an expression of industrial rationalism toward flawed attempts at humanitarian intervention through quasi-anthropological approaches and design strategies aimed at the socially and culturally excluded. She also casts a critical light on the current social design movement by revealing the macropolitics and neocolonial history in which it is embedded.

**Alison J. Clarke** is a design historian and social anthropologist. She is Professor of Design History and Theory at the University of Applied Arts Vienna, where she is also Director of the Victor J. Papanek Foundation.

March | 7 x 9, 344 pp. | 78 color illus.

**US \$40.00X/\$54.00 CAN cloth**  
978-0-262-04494-3

## Beyond the Creative Species

Making Machines That Make Art and Music

**Oliver Bown**

**A multidisciplinary introduction to the field of computational creativity, analyzing the impact of advanced generative technologies on art and music.**

As algorithms get smarter, what role will computers play in the creation of music, art and other cultural artifacts? Will they be able to create such things from the ground up, and will such creations be meaningful? In *Beyond the Creative Species*, Oliver Bown offers a multidisciplinary examination of computational creativity, analyzing the impact of advanced generative technologies on art and music. Drawing on a wide range of disciplines, including artificial intelligence and machine learning, design, social theory, the psychology of creativity, and creative practice research, Bown argues that to understand computational creativity, we must not only consider what computationally creative algorithms actually do, but also examine creative artistic activity itself.

After describing the state of the art in computational creativity—including past and present cycles of hype—Bown examines the psychology of creativity and how it may be amenable to algorithmic automation. He considers human creativity as a social phenomenon that depends on such factors as position within a social network and group identity. He reviews the existing algorithms for the production of computer-generated content, examines issues of interaction design, and explores paradigms of computational creativity; considers the evaluation of computationally creative systems, addressing the difference between the analysis of systems as creative agents and as creativity support tools; and, looking to the future, discusses the social implications of the consumption and experience of generated art and music.

**Oliver Bown** is Senior Lecturer and Researcher in the Interactive Media Lab at the University of New South Wales.

February | 6 x 9, 424 pp. | 17 illus.

**US \$45.00X/\$60.00 CAN cloth**  
978-0-262-04501-8

## Code as Creative Medium

A Handbook for Computational Art and Design

Golan Levin and Tega Brain

**An essential guide for teaching and learning computational art and design: exercises, assignments, interviews, and more than 170 illustrations of creative work.**

This book is an essential resource for art educators and practitioners who want to explore code as a creative medium, and serves as a guide for computer scientists transitioning from STEM to STEAM in their syllabi or practice. It provides a collection of classic creative coding prompts and assignments, accompanied by annotated examples of both classic and contemporary projects, and more than 170 illustrations of creative work, and features a set of interviews with leading educators. Picking up where standard programming guides leave off, the authors highlight alternative programming pedagogies suitable for the art- and design-oriented classroom, including teaching approaches, resources, and community support structures.

The book first offers a collection of syllabus modules, each built around an open-ended assignment or prompt, and all tested, adapted, or observed by the authors over twenty years of practice and teaching. Examples have been selected for their explicability and for their representation of varied approaches. The book then presents brief programming exercises relevant to artists and designers, helping readers learn computational techniques to control elementary visual (or in some cases, auditory or textual) patterns and forms. Finally, a diverse group of educators—including Dan Shiffman, Lauren McCarthy, and Taeyoon Choi—discuss the challenges of teaching expressive and critical studio arts through the tools of software development.

**Golan Levin** is Professor of Electronic Art at Carnegie Mellon University, where he is also Director of the Frank-Ratchye STUDIO for Creative Inquiry.

**Tega Brain**, an Australian-born artist, educator, and researcher, is Assistant Professor of Integrated Digital Media at New York University.

"I am struck by Levin and Brain's use of 'make it meaningful,' highlighting the critical core of this timely book—it links deeply the why to the how of teaching and learning creative coding."

—**Chris Coleman, Professor of Emergent Digital Practices at the University of Denver and Director of the Clinic for Open Source Arts (COSA)**

February | 9 x 7, 284 pp. | 171 illus.

**US \$35.00X/\$47.00 CAN paper**

978-0-262-54204-3

## Public Opinion and the Political Economy of Education Policy around the World

edited by Martin R. West and Ludger Woessmann

**Comparative analyses of public opinion on education policy in developed countries.**

Although research has suggested a variety of changes to education policy that have the potential to improve educational outcomes, politicians are often reluctant to implement such evidence-based reforms. Public opinion and pressure by interest groups would seem to have a greater role in shaping education policy than insights drawn from empirical data. The construction of a comparative political economy of education that seeks to explain policy differences among nations is long overdue. This book offers the first comparative inventory and analysis of public opinion on education in developed countries, drawing on data primarily from Europe and the United States.

Contributors first compare public attitudes about such policy topics as education spending and the status of teachers across many countries, with a particular emphasis on the two largest industrialized nations in the Western world, the United States and Germany. The book then offers case studies of education policies and reforms in specific settings. Chapters examine issues including partisan and ideological conflict over government spending on schools in the United States; the effect of information provision on German public opinion on education; and demographic differences and education policy preferences in Switzerland.

**Martin R. West** is William Henry Bloomberg Professor of Education at Harvard University. **Ludger Woessmann** is Professor of Economics at the University of Munich and Director of the Ifo Center for the Economics of Education.

### Contributors

Samuel Barrows, Marius R. Busemeyer, Maria A. Cattaneo, Peter Dolton, Julian L. Garritzmann, Michael B. Henderson, Anja Kilbarda, Philipp Lergertporer, Oliver McClellan, Paul E. Peterson, Robert Y. Shapiro, Sofi Sinozich, Katharina Werner, Martin R. West, Ludger Woessmann, Stefan C. Wolter

April | 6 x 9, 328 pp. | 63 illus.

**US \$50.00X/\$66.00 CAN cloth**

978-0-262-04568-1

**CESifo Seminar series**

## Voicing Code in STEM

A Dialogical Imagination

Pratim Sengupta, Amanda Dickes, and Amy Voss Farris

**An exploration of coding that investigates the interplay between computational abstractions and the fundamentally interpretive nature of human experience.**

The importance of coding in K–12 classrooms has been taken up by both scholars and educators. *Voicing Code in STEM* offers a new way to think about coding in the classroom—one that goes beyond device-level engagement to consider the interplay between computational abstractions and the fundamentally interpretive nature of human experience. Building on Mikhail Bakhtin’s notions of heterogeneity and heteroglossia, the authors explain how STEM coding can be understood as voicing computational utterances, rather than a technocentric framing of building computational artifacts. Empirical chapters illustrate this theoretical stance by investigating different framings of coding as voicing.

Understanding the experiential nature of coding allows us to design better tools and curricula for students, and enables us to see computing as experience beyond the mastery of symbolic power. Arguing for a critical phenomenology of coding, the authors explain that the phenomenological dimension refocuses attention on the fundamentally complex nature of human experiences that are involved in coding and learning to code. The critical dimension involves learning to recognize voices that historically have received less attention.

**Pratim Sengupta** is Full Professor of Learning Sciences and Research Chair in STEM Education in the Werklund School of Education at the University of Calgary. **Amanda Dickes** is a Learning Scientist at the Gulf of Maine Research Institute. **Amy Voss Farris** is Assistant Professor in the College of Education at Penn State University.

March | 6 x 9, 232 pp.

**US \$28.00X/\$37.00 CAN paper**

978-0-262-04511-7

## Effective Advocacy

Lessons from East Asia’s Environmentalists

Mary Alice Haddad

**An examination of successful environmental advocacy strategies in East Asia that shows how advocacy can be effective under difficult conditions.**

The countries of East Asia—China, Japan, South Korea, and Taiwan—are home to some of the most active and effective environmental advocates in the world. And the governments of these countries have adopted a range of innovative policies to fight pollution and climate change: Japan leads the world in emissions standards, China has become the world’s largest producer of photovoltaic panels, and Taiwan and South Korea have undertaken major green initiatives. In this book, Mary Alice Haddad examines the advocacy strategies that persuaded citizens, governments, and businesses of these countries to change their behavior.

How did environmental activists succeed in countries that favor business interests and are generally hostile to citizen-based advocacy? Haddad identifies and describes, with examples, five of the most effective advocacy strategies used by environmentalists in East Asia: cultivate policy access, make it work locally, make it work for business, engage the heart, and think outside the box. Drawing on both qualitative and quantitative data, she develops the Connected Stakeholder Model to show how advocates work through personal and professional networks to influence people in power. Stakeholders involved in policymaking are connected to diverse and multiple networks, which help them to develop complex ideas about the policies they develop. East Asia’s effective advocacy strategies, as well as Haddad’s theoretical framework, offer valuable lessons for activists, policy makers, and researchers.

**Mary Alice Haddad** is John E. Andrus Professor of Government and Professor of East Asian and Environmental Studies at Wesleyan University. She is the author of *Building Democracy in Japan* and *Politics and Volunteering in Japan: A Global Perspective*.

March | 6 x 9, 320 pp. | 16 illus.

**US \$35.00X/\$47.00 CAN paper**

978-0-262-54235-7

**American and Comparative Environmental Policy series**



## Resigned Activism

Living with Pollution in Rural China

**Anna Lora-Wainwright**

revised edition

**An examination of the daily grind of living with pollution in rural China and of the varying forms of activism that develop in response.**

Residents of rapidly industrializing rural areas in China live with pollution every day. Villagers drink obviously tainted water and breathe visibly dirty air, afflicted by a variety of ailments—from arthritis to nosebleeds—that they ascribe to the effects of industrial pollution. In *Resigned Activism*, Anna Lora-Wainwright explores the daily grind of living with pollution in rural China and the varying forms of activism that develop in response. This revised edition offers expanded acknowledgment of the contributions of Lora-Wainwright’s collaborators in China.

Lora-Wainwright finds that claims of health or environmental damage are politically sensitive, and that efforts to seek redress are frustrated by limited access to scientific evidence, growing socioeconomic inequalities, and complex local realities. Villagers, feeling powerless, often come to accept pollution as part of the environment; their activism is tempered by their resignation. Drawing on fieldwork done with teams of collaborators, Lora-Wainwright offers three case studies of “resigned activism” in rural China, examining the experiences of villagers who live with the effects of phosphorous mining and fertilizer production, lead and zinc mining, and electronic waste processing. The book also includes extended summaries of the in-depth research carried out by Ajiang Chen and his team in some of China’s “cancer villages,” village-sized clusters of high cancer incidence. These cases make clear the staggering human costs of development and the deeply uneven distribution of costs and benefits that underlie China’s economic power.

**Anna Lora-Wainwright** is Professor of the Human Geography of China at the University of Oxford, and the author of *Fighting for Breath: Living Morally and Dying of Cancer in a Chinese Village*.

March | 6 x 9, 288 pp. | 27 illus.

**US \$30.00X/\$40.00 CAN paper**

978-0-262-54249-4

**Urban and Industrial Environments series**

## Against Flow

Video Games and the Flowing Subject

**Braxton Soderman**

**A critical discussion of the experience and theory of flow (as conceptualized by Mihaly Csikszentmihalyi) in video games.**

Flow—as conceptualized by the psychologist Mihaly Csikszentmihalyi—describes an experience of “being in the zone,” of intense absorption in an activity. It is a central concept in the study of video games, although often applied uncritically. In *Against Flow*, Braxton Soderman takes a step back and offers a critical assessment of flow’s historical, theoretical, political, and ideological contexts in relation to video games. With close readings of games that implement and represent flow, Soderman not only evaluates the concept of flow in terms of video games but also presents a general critique of flow and its sibling, play.

Soderman argues that flow is a game design strategy used to extend the duration of playful consumption. Players—called flowing subjects by Soderman—are not simply experiencing the psychological state of flow; they are being positioned as media consumers in ways that promote flow’s ideologies and sustain ludic capitalism. He examines flow from a range of perspectives, considering, among other things, flow as a form of coping with alienation, the commodification of flow, and the relationship of flow and reflection. Finally, Soderman calls for the design and interpretation of new architectures of critical flow in games, arguing that we must rethink standard forms of flow and embrace more diverse and inclusive forms of the flowing subject.

**Braxton Soderman** is Assistant Professor of Film and Media Studies in the School of Humanities at the University of California, Irvine.

April | 6 x 9, 328 pp. | 34 illus.

**US \$40.00X/\$54.00 CAN cloth**

978-0-262-04550-6

## Critical Perspectives on Open Development

Empirical Interrogation of Theory Construction

edited by Arul Chib, Caitlin M. Bentley  
and Matthew L. Smith

**Cross-cutting theoretical frameworks and analyses examine how open innovations in international development can empower poor and marginalized populations.**

Over the last ten years, “open” innovations—the sharing of information and communications resources without access restrictions or cost—have emerged within international development. But do these innovations empower poor and marginalized populations? This book examines whether, for whom, and under what circumstances the free, networked, public sharing of information and communication resources contribute (or not) toward a process of positive social transformation. The contributors offer cross-cutting theoretical frameworks and empirical analyses that cover a broad range of applications, emphasizing the underlying aspects of open innovations that are shared across contexts and domains.

The book first outlines theoretical frameworks that span knowledge stewardship, trust, situated learning, identity, participation, and power decentralization. It then investigates these frameworks across a range of institutional and country contexts, considering each in terms of the key emancipatory principles and structural impediments it seeks to address. Taken together, the chapters offer an empirically tested theoretical direction for the field.

**Arul Chib** is Associate Professor at the Wee Kim Wee School of Communication and Information at Nanyang Technological University, Singapore.

**Caitlin M. Bentley** is a Lecturer at the Information School at Sheffield University and an Honorary Fellow at Australian National University's 3A Institute.

**Matthew L. Smith** is Senior Program Specialist at the International Development Research Centre in Ottawa and coeditor of *Open Development: Networked Innovations in International Development* (MIT Press and IDRC).

### Contributors

Juan Pablo Alperin, Caitlin M. Bentley, Bidisha Chaudhuri, Nandini Chami, Arul Chib, Purnabha Dasgupta, Andy Dearden, Melissa Densmore, Helani Galpaya, Piyumi Gamage, Anita Gurusurthy, Onkar Hoysala, Linus Kendall, Rich Ling, Goodiel Moshi, Chiranthi Rajapakse, Katherine Reilly, Paul Mungai, Priya Parekh, Chiranthi Rajapakse, Anuradha Rao, Katherine Reilly, David Sadoway, Deo Shao, Parminder Jeet Singh, Matthew L. Smith, Janaki Srinivasan, Bernd Carsten Stahl, Satyarupa Shekhar Swain, John Traxler, Jean-Paul Van Belle, Marion Walton, Yingqin Zheng

February | 6 x 9, 320 pp. | 8 illus.

**US \$55.00X/\$73.00 CAN paper**  
978-0-262-54232-6

**International Development Research Centre**

## Knowledge Justice

Disrupting Library and Information Studies through  
Critical Race Theory

edited by Sofia Y. Leung and Jorge R. López-McKnight

**Black, Indigenous, and Peoples of Color reimagine library and information science through the lens of critical race theory.**

In *Knowledge Justice*, Black, Indigenous, and Peoples of Color scholars use critical race theory (CRT) to challenge the foundational principles, values, and assumptions of Library and Information Science and Studies (LIS) in the United States. They propel CRT to center stage in LIS, to push the profession to understand and reckon with how white supremacy affects practices, services, curriculum, spaces, and policies.

The contributors show that the field is deeply invested in the false idea of its own objectivity and neutrality, and they go on to show how this relates to assumptions about race. Through deep analyses of library and archival collections, scholarly communication, hierarchies of power, epistemic supremacy, children's librarianship, teaching and learning, digital humanities, and the education system, *Knowledge Justice* challenges LIS to reimagine itself by throwing off the weight and legacy of white supremacy and reaching for racial justice.

**Sofia Y. Leung** (she/her) is a librarian, facilitator, and educator in the Boston area. **Jorge R. López-McKnight** (he/him) is a community college library worker in Austin, Texas.

### Contributors

Miranda H. Belarde-Lewis (Zuni and Tlingit), Jennifer Brown, Anastasia Chiu, Nicholae Cline (Coharie), Anne Cong-Huyen, Tony Dunbar, Isabel Espinal, Fobazi M. Ettarh, Jennifer A. Ferretti, April M. Hathcock, Todd Honma, Harrison W. Inefuku, Sarah R. Kostelecky (Zuni Pueblo), Kafi Kumasi, Sofia Y. Leung, Jorge R. López-McKnight, Sujei Lugo, Marisa Méndez-Brady, Myrna Morales, Lalitha Nataraj, Vani Natarajan, Antonia P. Olivas, Kush Patel, Torie Quiñonez, Maria Adoria Rios, Tonia Sutherland, Shaundra Walker, Stacie Williams, Rachel E. Winston

April | 7 x 9, 320 pp. | 4 illus.

**US \$35.00X/\$47.00 CAN paper**  
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## Merge

Binarity in (Multidominant) Syntax

**Barbara Citko and Martina Gračanin-Yüksek**

**An argument that Merge is binary but its binarity refers to syntactic positions rather than objects.**

In this book, Barbara Citko and Martina Gračanin-Yüksek examine the constraints on Merge—the basic structure-building operation in minimalist syntax—from a multidominant perspective. They maintain that Merge is binary, but argue that the binarity of Merge refers to syntactic positions Merge relates: what has typically been formulated as a constraint that prevents Merge from combining more than two syntactic objects is a constraint on Merge's relating more than two syntactic positions.

Citko and Gračanin-Yüksek investigate the interactions between the two types of Merge that can generate multidominant structures: Parallel Merge and Internal Merge. Taking Right Node Raiding (RNR) as a representative example of Parallel Merge and Across-the-Board (ATB) extraction to be representative of Parallel Merge + Internal Merge, they show that ATB is subject to a parallelism constraint that RNR is not subject to. They show that this difference follows from Binarity Constraint on Merge (BiCoM), the requirement that prevents Merge from relating more than two syntactic positions within a single derivation, which is obeyed in RNR, but not in ATB extraction. They further show that BiCoM is also operative in languages with more flexible word order, such as Croatian and Polish, and that structural syncretism alleviates BiCoM violations in these languages as well.

**Barbara Citko** is Professor of Linguistics at the University of Washington. She is the author of *Phase Theory: An Introduction* and *Symmetry in Syntax: Merge, Move and Labels*. **Martina Gračanin-Yüksek** is Professor in the Department of Foreign Language Education at Middle East Technical University in Ankara, Turkey.

February | 6 x 9, 190 pp. | 107 illus.

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**Linguistic Inquiry Monographs series**

## The Phonology/Phonetics Interface

**Elizabeth C. Zsiga**

**A textbook for advanced students that goes beyond basic phonetics and phonology to investigate their interaction.**

Is speech in the mouth or in the brain? Do we hear with our ears or our minds? The answer is: both. The sounds of language are both physical objects and cognitive constructs. The physical aspects of speech are the province of phonetics: sound waves that are produced by the movement of articulators and received by the ear. Phonology, by contrast, studies cognitive aspects: systematic patterns in the ways that languages combine sounds to create meaning. Many books look at phonology and phonetics as separate disciplines. This book looks at the interaction between the two.

*The Phonology/Phonetics Interface* examines classic and current linguistic theories—including structuralist, derivational, and post-derivational approaches—to explore how physical and cognitive factors interact in the mind of the speaker and in the language system as a whole. The patterns of phonology are often clearly dependent on the principles of phonetics, yet they can also diverge from them in sometimes complex ways. The book examines the roles of both articulation and perception in creating and maintaining phonological patterns. Chapters are organized thematically around central issues, such as categorization or abstraction, presented roughly in the order in which these issues rose to the forefront of linguistic theorizing, providing historical perspective without adhering to a completely chronological presentation. Each chapter ends with discussion questions and references for further reading. The book is suitable for students in advanced courses and as an overview for professionals and scholars.

**Elizabeth C. Zsiga** is Professor and Chair in the Linguistics Department at Georgetown University and the author of *The Sounds of Language: An Introduction to Phonetics and Phonology*.

February | 6 x 9 1/4, 328 pp.

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**For sale in North America only**

## Historical Linguistics

An Introduction

fourth edition

**Lyle Campbell**

**The new edition of a comprehensive, accessible, and hands-on text in historical linguistics, revised and expanded with new material and a new layout.**

This accessible, hands-on textbook not only introduces students to the important topics in historical linguistics but also shows them how to apply the methods described and how to think about the issues. Abundant examples from a broad range of languages and exercises allow students to focus on how to do historical linguistics. The book is distinctive for its integration of the standard topics with others now considered important to the field, including syntactic change, grammaticalization, sociolinguistic contributions to linguistic change, distant genetic relationships, areal linguistics, and linguistic prehistory.

The book also offers a defense of the family tree model, a response to recent claims on lexical diffusion/frequency, and a section on why languages diversify and spread. Example from the more familiar English, French, German, and Spanish make the topics more accessible, while those from non-Indo-European languages show the depth and range of the concepts they illustrate.

This fourth edition features a larger page format and refreshed layout for a more reader-friendly experience; sixteen restructures and revised chapters and two new chapters on lexical change and semantic change and new coverage of quantitative and corpus research methods; practical exercises and a full bibliography.

**Lyle Campbell** is Professor of Linguistics at the University of Hawai'i at Manoa. He is the author of *American Indian Languages: The Historical Linguistics of Native America* and *Historical Syntax in Cross-Linguistic Perspective* (with Alice C. Harris), both of which won the Linguistic Society of America's prestigious Leonard Bloomfield Book Award, and other books.

March | 6 3/4 x 9 1/2, 560 pp. | 100 illus.

**US \$50.00X/\$66.00 CAN paper**

978-0-262-54218-0

**For sale in North America only**

## The Next Age of Disruption

MIT Sloan Management Review

**Management experts discuss the innovation challenges that lie ahead, building on Clayton Christensen's famous theory of "disruptive innovation."**

Clayton Christensen's groundbreaking theory of "disruptive innovation" has proven to be one of the most influential management ideas of the last several decades. In this book, business and management experts—many of them Christensen's colleagues and former students—discuss the innovation challenges that lie ahead. Building on Christensen's work, they offer companies a guide for navigating a new world of disruption—a future in which artificial intelligence is a business tool, the speed of innovation increases dramatically, and capital is more easily accessible. The book also includes one of the last interviews with Christensen before his death in January 2020.

The contributors first consider "the human element," discussing such topics as why good ideas get stuck and how innovators can allay skittish potential supporters' concerns, ethical issues in an age of disruption, and how to retain top talent. Turning to issues of competition, they examine the nearly frictionless shopping experience offered by such new disrupters as Warby Parker and Dollar Shave Club, discuss AI as a game-changer, and explore the power of platforms. Finally, they consider the future, listing eleven sources of disruption every company should monitor, explaining how to anticipate uncertainty, and describing the benefits of both internal and external partnerships.

### Contributors

Scott D. Anthony, Didier Bonnet, Greg Brown, Clayton M. Christensen, Michael A. Cusumano, Karen Dillon, Jeff Dyer, Sebastian K. Fixson, Nathan Furr, Joshua Gans, Annabelle Gawer, Brian Halligan, Nicole Helmer, Mike Hendron, Michael B. Horn, Marco Iansiti, Rahul Kapoor, Thomas Kluefer, Karim R. Lakhani, Tucker J. Marion, Rita Gunther McGrath, Michael Putz, Neil C. Thompson, Amy Webb, Max Wessel, Ardine Williams, Yun Ye, David B. Yoffie

February | 5 3/8 x 8, 288 pp. | 4 illus.

**US \$25.00X/\$34.00 CAN paper**

978-0-262-54221-0

**The Digital Future of Management**

## Lectures on the Philosophy of Mathematics

Joel David Hamkins

**An introduction to the philosophy of mathematics grounded in mathematics and motivated by mathematical inquiry and practice.**

In this book, Joel David Hamkins offers an introduction to the philosophy of mathematics that is grounded in mathematics and motivated by mathematical inquiry and practice. He treats philosophical issues as they arise organically in mathematics, discussing such topics as platonism, realism, logicism, structuralism, formalism, infinity, and intuitionism in mathematical contexts. He organizes the book by mathematical themes—numbers, rigor, geometry, proof, computability, incompleteness, and set theory—that give rise again and again to philosophical considerations.

Hamkins shows, for example, how number systems set the stage for discussions of such philosophical issues as platonism, logicism, and the nature of abstraction. Consideration of the rise of rigor in the calculus leads to a discussion of whether the indispensability of mathematics in science offers grounds for mathematical truth. Sophisticated technical developments in set theory give rise to a necessary engagement with deep philosophical concerns, including the criteria for new mathematical axioms. Throughout, Hamkins offers a clear and engaging exposition that is both accessible and sophisticated, intended for readers whose mathematical backgrounds range from novice to expert.

**Joel David Hamkins** is Professor of Logic at Oxford University and Sir Peter Strawson Fellow in Philosophy at University College, Oxford. The author of *Proof and the Art of Mathematics* (MIT Press), he is the creator of the popular blog *Mathematics and Philosophy of the Infinite*. He is a prominent contributor to MathOverflow, where he has posted more than 1,000 mathematical arguments.

“An engaging introduction to philosophical issues that arise within mathematics, explained with mathematical examples that don’t require much background to understand. Hamkins is a prominent set-theorist with a strong philosophical bent, and an exceptionally good expositor. The book is extremely readable, and has insightful discussions of a wide variety of topics. I recommend it highly.”

—**Hartry Field, Silver Professor of Philosophy, New York University**

February | 7 x 9, 352 pp.

**US \$45.00X/\$60.00 CAN paper**

978-0-262-54223-4

## Proof and the Art of Mathematics

Examples and Extensions

Joel David Hamkins

**How to write mathematical proofs, shown in fully worked-out examples.**

This companion volume to Joel Hamkins’s *Proof and the Art of Mathematics* provides fully worked-out solutions to all of the odd-numbered exercises as well as a few of the even-numbered exercises. In many cases, the solutions go beyond the exercise question itself to the natural extensions of the ideas, helping readers learn how to approach a mathematical investigation. As Hamkins asks, “Once you have solved a problem, why not push the ideas harder to see what further you can prove with them?” These solutions offer readers examples of how to write a mathematical proofs.

The mathematical development of this text follows the main book, with the same chapter topics in the same order, and all theorem and exercise numbers in this text refer to the corresponding statements of the main text.

**Joel David Hamkins** is Professor of Logic at Oxford University and Sir Peter Strawson Fellow in Philosophy at University College, Oxford. He has published widely in refereed research journals in mathematical logic and set theory and is the creator of the popular blog *Mathematics and Philosophy of the Infinite*. He is a prominent contributor to MathOverflow, where he has posted more than 1,000 mathematical arguments.

February | 7 x 9, 132 pp. | 47 illus.

**US \$30.00X/\$40.00 CAN paper**

978-0-262-54220-3



## The 360° Gaze

Immersion in Media, Society, and Culture

**Christian Stiegler**

**A comprehensive study of the pervasive role of immersion and immersive media in postmodern culture, from a humanities and social sciences perspective.**

Virtual reality, augmented reality, mixed reality, and other modes of digitally induced immersion herald a major cultural and economic shift in society. Most academic discussions of immersion and immersive media have focused on the technological aspects. In *The 360° Gaze*, Christian Stiegler takes a humanities and social science approach, emphasizing the human implications of immersive media in postmodern culture. Examining characteristics common to all immersive experiences, he uncovers dominant metaphors, such as the rabbit hole, and prevailing ideologies. He raises fundamental questions about opportunities and risks associated with immersion, as well as the potential effects on individuals, communities, and societies.

Stiegler expands the range of media practices we should consider immersive. Introducing his theoretical framework of “the 360° gaze,” he navigates immersive experiences in literature, film, television, the performing arts, digital games, and immersive technologies. He considers their implications for psychology and reception, as well as their role in cultural industries and digital ecosystems. As he examines the intersections among immersive settings in media and in everyday immersive acts, he reframes such topics as mediation of the self, binge-watching, fandom, extended reality, and artificial intelligence. Immersion, he argues, is key to understanding the role of mass media in postmodern society. Stiegler perceives immersion to be an even more powerful and enduring form of engagement than mediation. Writing as a researcher and storyteller, he provides a guide to rethinking immersion in mediated experiences from the past, to enable us to prepare ourselves for the future.

**Christian Stiegler** is an Associate Professor of Immersive Media at the University of the West of England, Bristol.

May | 6 x 9, 312 pp. | 25 illus.

**US \$45.00X/\$60.00 CAN cloth**  
978-0-262-04566-7

## Email and the Everyday

Stories of Disclosure, Trust, and Digital Labor

**Esther Milne**

**An exploration of how email is experienced, understood, and materially structured as a practice spanning our everyday domestic and work lives.**

Despite its many obituaries, email is not dead. As a global mode of business and personal communication, email outstrips newer technologies of online interaction; it is deeply embedded in our everyday lives. And yet—perhaps because the ubiquity of email has obscured its study—this is the first scholarly book devoted to email as a key historical, social, and commercial site of digital communication in our everyday lives. In *Email and the Everyday*, Esther Milne examines how email is experienced, understood, and materially structured as a practice spanning the domestic and institutional spaces of daily life.

Email experiences range from the routine and banal to the surprising and shocking. Drawing on interviews and online surveys, Milne focuses on both the material and the symbolic properties of email. She maps the development of email as a technology and an industry; considers institutional uses of email, including “bureaucratic intensity” of workplace email and the continuing vibrancy of email groups; and examines what happens when private emails end up in public archives, discussing the Enron email dataset and Hillary Clinton’s infamous private server. Finally, Milne explores the creative possibilities of email, connecting eighteenth-century epistolary novels to contemporary “email novels,” discussing the vernacular expression of ASCII art and mail art, and examining email works by Carl Steadman, Miranda July, and others.

**Esther Milne** is Associate Professor of Media and Communications at Swinburne University of Technology in Melbourne, Australia.

“Esther Milne has written a compelling book about our understanding of and experiences with and through email. She maneuvers effortlessly between the everyday banalities and the extraordinary drama that transpire in emails, and masterfully delivers finely grained analyses of email stories while displaying a deep consideration of wider social and political currents. Both inspiring and fascinating.”

—**Anette Grønning, Associate Professor, Department for the Study of Culture, University of Southern Denmark**

February | 6 x 9, 336 pp. | 2 illus.

**US \$35.00X/\$47.00 CAN cloth**  
978-0-262-04563-6

## Uncertain Archives

Critical Keywords for Big Data

edited by **Nanna Bonde Thylstrup, Daniela Agostinho, Annie Ring, Catherine D'Ignazio, and Kristin Veel**

**Scholars from a range of disciplines interrogate terms relevant to critical studies of big data, from abuse and aggregate to visualization and vulnerability.**

This groundbreaking work offers an interdisciplinary perspective on big data and the archives they accrue, interrogating key terms. Scholars from a range of disciplines analyze concepts relevant to critical studies of big data, arranged glossary style—from abuse and aggregate to visualization and vulnerability. They not only challenge conventional usage of such familiar terms as prediction and objectivity but also introduce such unfamiliar ones as overfitting and copynorm. The contributors include a broad range of leading and agenda-setting scholars, including as N. Katherine Hayles, Wendy Hui Kyong Chun, Johanna Drucker, Lisa Gitelman, Safiya Noble, Sarah T. Roberts, and Nicole Starosielski.

Uncertainty is inherent to archival practices; the archive as a site of knowledge is fraught with unknowns, errors, and vulnerabilities that are present, and perhaps even amplified, in big data regimes. Bringing lessons from the study of the archive to bear on big data, the contributors consider the broader implications of big data's large-scale determination of knowledge.

**Nanna Bonde Thylstrup** is Associate Professor at Copenhagen Business School and author of *The Politics of Mass Digitization* (MIT Press).

**Daniela Agostinho** is postdoctoral fellow in the Department of Arts and Cultural Studies at the University of Copenhagen. **Annie Ring** is Lecturer in the Faculty of Arts & Humanities at University College London.

**Catherine D'Ignazio** is Assistant Professor of Urban Science and Planning at MIT and coauthor of *Data Feminism* (MIT Press). **Kristin Veel** is Associate Professor at the Department for Arts and Cultural Studies at the University of Copenhagen and coauthor of *Tower to Tower* (MIT Press).

February | 7 x 9, 640 pp. | 44 illus.

**US \$55.00X/\$73.00 CAN paper**  
978-0-262-53988-3

## Exploratory Programming for the Arts and Humanities

second edition

**Nick Montfort**

**A new edition of a book for anyone who wants to learn programming to explore and create, with exercises and projects to help readers learn by doing.**

This book introduces programming to readers involved with the arts and humanities; there are no prerequisites, and no previous knowledge of programming is assumed. Nick Montfort reveals programming to be not merely a technical exercise within given constraints but a tool for sketching, brainstorming, and inquiry. He emphasizes programming's exploratory potential—its facility to create new kinds of artworks and to probe data for new ideas. The book is designed to be read alongside the computer, allowing readers to program while making their way through the chapters. It offers practical exercises in writing and modifying code and outlines “free projects” that allow learners to pursue their own interests.

This second edition has been reorganized and expanded to allow more modular use while also offering a better experience for readers who wish to go through all the chapters. It provides many more exercises, especially early on, to help learners build a foundation of basic knowledge, and it offers new free projects. A new chapter on classification allows learners to understand machine learning through programming and across different types of media. This edition also includes new illustrations that support an understanding of essential concepts in programming as well as a significantly expanded glossary. The book uses Python and Processing, and has been updated from Python 2 to Python 3.

**Nick Montfort** is Professor of Digital Media at MIT. He is the author of *Twisty Little Passages* and *The Future* (both published by the MIT Press).

May | 7 x 9, 328 pp. | 10 illus.

**US \$40.00X/\$54.00 CAN cloth**  
978-0-262-04460-8

## The Politics of Dating Apps

Gender, Sexuality, and Emergent Publics in Urban China

Lik Sam Chan

**An examination of dating app culture in China, across user demographics—straight women, straight men, queer women, and queer men.**

In this exploration of dating app culture in China, Lik Sam Chan argues that these popular mobile apps are not merely a platform for personal relationships but also an emerging arena for gender and queer politics. Chan examines the opportunities dating apps present for women's empowerment and men's performances of masculinity, and he links experiences of queer dating app users with their vulnerable position as sexual minorities. He finds that dating apps are both portals to an exciting virtual world of relational possibilities and sites of power dynamics that reflect the heteronormativity and patriarchy of Chinese society.

Drawing on in-depth interviews with urban users of such dating apps as Momo, Tantan, Blued, Aloha, Rela, and Lesdo, Chan proposes “networked sexual publics” as a unifying concept to capture the dynamics of dating app culture. Devoting a chapter to each of four publics—straight women, straight men, queer men, and queer women—Chan documents how relationships are shaped and transfigured by this emerging technology. He considers whether dating apps can be a feminist tool; explores straight men's self-presentation on the apps and their interactions with women they meet there; discusses the constant cycle of deleting and installing the same apps seen among queer men; and examines how popular lesbian dating apps may connect queer women to their communities. Finally, Chan maps possible paths for future intersectional, queer, and feminist scholarship on emerging communication technologies.

**Lik Sam Chan** is Assistant Professor in the School of Journalism and Communication at the Chinese University of Hong Kong.

March | 6 x 9, 184 pp. | 10 illus.

**US \$30.00X/\$40.00 CAN paper**

978-0-262-54234-0

**Information Society series**

## Intrusive Thinking

From Molecules to Free Will

edited by Peter W. Kalivas and Martin P. Paulus

**An exploration of the neurological and behavioral mechanisms and processes involved in intrusive thinking.**

On any given day, unintended, recurrent thoughts intrude on our thinking and affect our behavior in ways that can be adaptive. Such thoughts, however, become intrusive and problematic when they are unwanted, become compulsive, or lead to socially or medically unacceptable behavior. This volume explores what goes on in our brains to create thought intrusions, and how these intrusions lead to maladaptive behavior.

Intrusive thoughts feature prominently in most psychiatric disorders, so understanding the neurological and behavioral processes underlying them is an urgent endeavor. To investigate these issues, contributors from a range of disciplines—including neuroscience, psychiatry, psychology, and pharmacology—consider the mechanisms involved in intrusive thoughts under normal and abnormal conditions. They analyze how decision making becomes corrupted to create uncontrollable intrusions, explore the implications for concepts of free will and individual responsibility, and suggest avenues for future research.

**Peter W. Kalivas** is Professor of Neuroscience at the Medical University of South Carolina in Charleston. **Martin P. Paulus** is Scientific Director and President of the Laureate Institute for Brain Research and Adjunct Professor in the Department of Psychiatry at the University of California, San Diego.

“This wonderful book provides a comprehensive consideration of the very human experience of intrusive thinking. How such thoughts arise and their influence on behavior is covered by carefully crafted chapters from world-leading scientists. From cells to circuits, psychology to therapeutics, this is the definitive book on intrusive thinking.”

—**Paul J. Kenny, Ward-Coleman Professor and Chair, Nash Family Department of Neuroscience, Mount Sinai School of Medicine, NY**

February | 6 x 9, 474 pp. | 20 color illus., 20 b&w illus.

**US \$45.00X/\$60.00 CAN paper**

978-0-262-54237-1

**Strüngmann Forum Reports**

## Defining Mental Disorder

Jerome Wakefield and His Critics

edited by **Luc Faucher and Denis Forest**

**Philosophers discuss Jerome Wakefield's influential view of mental disorder as "harmful dysfunction," with detailed responses from Wakefield himself.**

One of the most pressing theoretical problems of psychiatry is the definition of mental disorder. Jerome Wakefield's proposal that mental disorder is "harmful dysfunction" has been both influential and widely debated; philosophers have been notably skeptical about it. This volume provides the first book-length collection of responses by philosophers to Wakefield's harmful dysfunction analysis (HDA), offering a survey of philosophical critiques as well as extensive and detailed replies by Wakefield himself.

HDA is offered as a definition of mental disorder, but it is also the outcome of a method—conceptual analysis—and contributors first take up HDA's methodology, considering such topics as HDA's influences on the DSM, empirical support for HDA, and clinical practice. They go on to discuss HDA's ultimate goal, the demarcation between normal and abnormal; the dysfunction component of the analysis, addressing issues that include developmental plasticity, autism and neurodiversity, and the science of salience; and the harmful component, examining harmless dysfunction, normal variation, medicalization, and other questions. Wakefield offers substantive responses to each chapter.

**Luc Faucher** is Professor in the Philosophy Department at the University of Québec in Montréal. **Denis Forest** is Professor of Philosophy of Science in the Department of Philosophy at Paris 1 Panthéon-Sorbonne and Member of the IHPST (Institute of History and Philosophy of Science and Technique), Paris.

### Contributors

Rachel Cooper, Andreas De Block, Steeves Demazeux, Leen De Vreese, Luc Faucher, Denis Forest, Justin Garson, Philip Gerrans, Harold Kincaid, Maël Lemoine, Dominic Murphy, Jonathan Schol, Tim Thornton, Jerome Wakefield, Peter Zachar

February | 7 x 9, 630 pp. | 4 illus.

**US \$110.00X/\$143.00 CAN cloth**  
978-0-262-04564-3

**Philosophical Psychopathology series**

## The Nature of Truth

Classic and Contemporary Perspectives

second edition

edited by **Michael P. Lynch, Jeremy Wyatt, Junyeol Kim, and Nathan Kellen**

**The definitive and essential collection of classic and new essays on analytic theories of truth, revised and updated, with seventeen new chapters.**

The question "What is truth?" is so philosophical that it can seem rhetorical. Yet truth matters, especially in a "post-truth" society in which lies are tolerated and facts are ignored. If we want to understand why truth matters, we first need to understand what it is. *The Nature of Truth* offers the definitive collection of classic and contemporary essays on analytic theories of truth. This second edition has been extensively revised and updated, incorporating both historically central readings on truth's nature as well as up-to-the-moment contemporary essays. Seventeen new chapters reflect the current trajectory of research on truth.

Highlights include new essays by Ruth Millikan and Gila Sher on correspondence theories; a new essay on Peirce's theory by Cheryl Misak; seven new essays on deflationism, laying out both theories and critiques; a new essay by Jamin Asay on primitivist theories; and a new defense by Kevin Scharp of his replacement theory, coupled with a probing critique of replacement theories by Alexis Burgess. Classic essays include selections by J. L. Austin, Donald Davidson, William James, W. V. O. Quine, and Alfred Tarski.

**Michael P. Lynch** is Board of Trustees Distinguished Professor of Philosophy at the University of Connecticut, where he directs the Humanities Institute. In 2019 he was awarded the George Orwell Award for Distinguished Contribution to Honesty and Clarity in Public Language. **Jeremy Wyatt** is Lecturer in Philosophy at the University of Waikato in New Zealand. **Junyeol Kim** is Visiting Assistant Professor in Philosophy at the University of Connecticut. **Nathan Kellen** is Visiting Assistant Professor in Philosophy at Kansas State University.

### Contributors

William P. Alston, J. L. Austin, Bradley Armour-Garb, Jamin Asay, Dorit Bar-On, Jo Beall, Simon Blackburn, Brand Blanshard, Alexis Burgess, Donald Davidson, Michael Dummett, Douglas Edwards, Filippo Ferrari, Hartry Field, Dorothy Grover, Paul Horwich, Christopher Hill, Jennifer Hornsby, William James, Nathan Kellen, Junyeol Kim, Michael P. Lynch, Ruth Garrett Millikan, Cheryl Misak, Sebastiano Moruzzi, Nikolaj Pedersen, Charles Sanders Peirce, Hilary Putnam, W. V. O. Quine, Frank Plumpton Ramsey, Richard Rorty, Bertrand Russell, Kevin Scharp, Gila Sher, Keith Simmons, P. F. Strawson, Alfred Tarski, Ralph C. S. Walker, James Woodbridge, Crispin Wright, Jeremy Wyatt

March | 7 x 9, 704 pp. | 4 illus.

**US \$65.00X/\$86.00 CAN paper**  
978-0-262-54206-7

## The Constitution of Algorithms

Ground-Truthing, Programming, Formulating

**Florian Jatton**

foreword by Geoffrey C. Bowker

**A laboratory study that investigates how algorithms come into existence.**

Algorithms—often associated with the terms big data, machine learning, or artificial intelligence—underlie the technologies we use every day, and disputes over the consequences, actual or potential, of new algorithms arise regularly. In this book, Florian Jatton offers a new way to study computerized methods, providing an account of where algorithms come from and how they are constituted, investigating the practical activities by which algorithms are progressively assembled rather than what they may suggest or require once they are assembled.

Drawing on a four-year ethnographic study of a computer science laboratory that specialized in digital image processing, Jatton illuminates the invisible processes that are behind the development of algorithms. Tracing what he terms a set of intertwining courses of actions sharing common finalities, he describes the practical activity of creating algorithms through the lenses of ground-truthing, programming, and formulating. He first presents the building of ground truths, referential repositories that form the material basis for algorithms. Then, after considering programming's resistance to ethnographic scrutiny, he describes programming courses of action he attended at the laboratory. Finally, he offers an account of courses of action that successfully formulated some of the relationships among the data of a ground-truth database, revealing the links between ground-truthing, programming, and formulating activities—entangled processes that lead to the shaping of algorithms. In practice, ground-truthing, programming, and formulating form a whirlwind process, an emergent and intertwined agency.

**Florian Jatton** is a Postdoctoral Researcher at the STS Lab at the University of Lausanne.

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In 1948, the World Health Organization (WHO) began to prepare its social psychiatry project, which aimed to discover the epidemiology and arrive at a classification of mental disorders. In *Mad by the Millions*, Harry Yi-Jui Wu examines the WHO's ambitious project, arguing that it was shaped by the postwar faith in technology and expertise and the universalizing vision of a “world psyche.” Wu shows that the WHO's idealized scientific internationalism laid the foundations for today's highly metricized global mental health system.

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**Harry Yi-Jui Wu** is Associate Professor of Medical Humanities and Yushan Young Scholar at National Cheng-Kung University in Taiwan.

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**A history of New York subway passengers as they navigated the system's constraints while striving for individuality, or at least a smooth ride.**

When the subway first opened with much fanfare on October 27, 1904, New York became a city of underground passengers almost overnight. In this book, Stefan Höhne examines how the experiences of subway passengers in New York City were intertwined with cultural changes in urban mass society throughout the twentieth century. Höhne argues that underground transportation—which early passengers found both exhilarating and distressing—changed perceptions, interactions, and the organization of everyday life.

Over the decades, discourses surrounding the subway system shaped passengers alternately as progressive heroes, fragile cargo, barbarians, patriots, or vigilantes. At the same time, authorities saw passengers as undisciplined masses posing a threat to order. Höhne investigates how authorities attempted to control passenger behavior with rules and regulations in an effort to ensure efficiency in transit. Meanwhile, passengers asserted their individuality by resisting imposed norms and inventing subversive practices.

Critically engaging with the work of Michel Foucault and other theorists, Höhne maps the subway–passenger relationship from the system's inception to its 1968 consolidation into the Metropolitan Transit Authority, as the subway—once a monument to progress—became a neglected infrastructure plagued by crime and fear. Höhne shows that throughout the course of the twentieth century, New York City subway passengers struggled to navigate the system's constraints while striving for individuality, or at least a smooth ride.

**Stefan Höhne** is a cultural historian of urbanization and technology and a Mercator Research Fellow at the Institute for Advanced Study in the Humanities (KWI) in Essen, Germany.

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**Gascia Ouzounian**

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The relationship between sound and space has become central to both creative practices in music and sound art and contemporary scholarship on sound. Entire subfields have emerged in connection to the spatial aspects of sound, from spatial audio and sound installation to acoustic ecology and soundscape studies. But how did our understanding of sound become spatial? In *Stereophonica*, Gascia Ouzounian examines a series of historical episodes that transformed ideas of sound and space, from the advent of stereo technologies in the nineteenth century to visual representations of sonic environments today.

Developing a uniquely interdisciplinary perspective, Ouzounian draws on both the history of science and technology and the history of music and sound art. She investigates the binaural apparatus that allowed nineteenth-century listeners to observe sound in three dimensions; examines the development of military technologies for sound location during World War I; revisits experiments in stereo sound at Bell Telephone Laboratories in the 1930s; and considers the creation of "optimized acoustical environments" for theaters and factories. She explores the development of multichannel "spatial music" in the 1950s and sound installation art in the 1960s; analyzes the mapping of soundscapes; and investigates contemporary approaches to sonic urbanism, sonic practices that reimagine urban environments through sound.

Rich in detail but accessible and engaging, and generously illustrated with photographs, drawings, maps, and diagrams of devices and artworks, *Stereophonica* brings an acute, imaginative, and much-needed historical sensibility to the growing literature around sound and space.

**Gascia Ouzounian** is Associate Professor in the Faculty of Music at the University of Oxford.

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## Paris and the Parasite

Noise, Health, and Politics in the Media City

**Macs Smith**

**The social consequences of anti-parasitic urbanism, as efforts to expunge noise and biological parasites penalize those viewed as social parasites.**

According to French philosopher Michel Serres, ordered systems are founded on the pathologization of parasites, which can never be fully expelled. In *Paris and the Parasite*, Macs Smith extends Serres's approach to Paris as a mediatic city, asking what organisms, people, and forms of interference constitute its parasites. Drawing on French poststructuralist theory and philosophy, media theory, the philosophy of science, and an array of literary and cultural sources, he examines Paris and its parasites from the early nineteenth century to today, focusing on the contemporary city. In so doing, he reveals the social consequences of anti-parasitic urbanism.

Smith examines how media shape the design and experience of urban space, as well as how the city passes through layers of mediation. He asks what constitutes noise within a media city. Paris's municipal government views acoustic noise as a public health threat and calls for its elimination. But the government's proposals focus on reducing automobile traffic, making it harder for marginalized people to access the city. Thus, a push to eliminate a supposedly biological parasite banishes the so-called social parasites. Questioning the informatic ideologies undergirding modern urbanism, Smith shows both how this anti-parasitic urbanism works and how the banished outsiders noisily intervene, despite their exclusion from the centers of power. The expulsion of social, biological, and mediatic parasites is a governing theme of modern Paris, yet its parasites continually resurge. What is ultimately at stake is how we understand collective life.

**Macs Smith** is Career Development Fellow in French at the Queen's College at the University of Oxford.

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**Tridib Banerjee**

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Banerjee deftly traces the urban legacy of the Global South from the beginning of the colonial era, closely examining the economic, political, and ideological forces that influenced colonial and postcolonial development, drawing from relevant experiences of different cities in the developing world and discussing the arguments for the historic parity of these cities with their Western counterparts. Finally, Banerjee considers essential notions of future city design that are grounded in the critical challenges of sustainable development, equity, environmental and social justice, and diversity, and how such outcomes can be achieved. This book serves as the opening of a long overdue conversation among design, development, planning scholars and practitioners, and those interested in the urban development of the Global South.

**Tridib Banerjee** is Professor and the James Irvine Chair in Urban and Regional Planning at University of Southern California.

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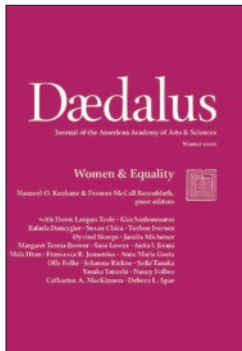


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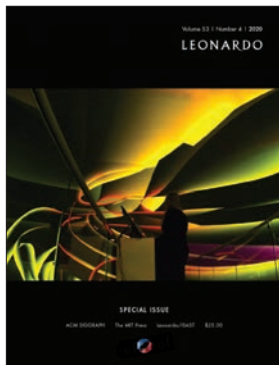


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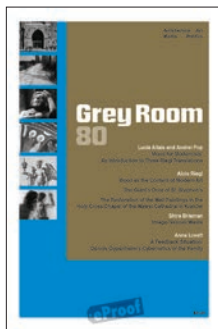


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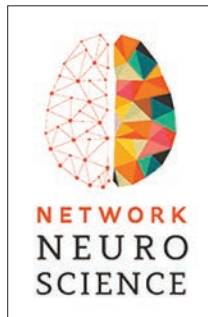
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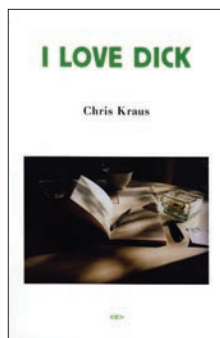
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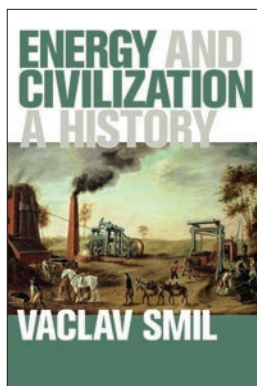
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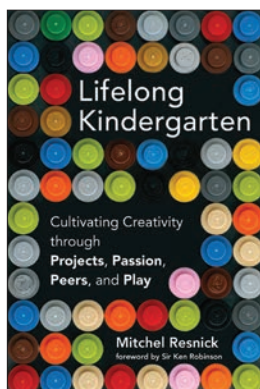
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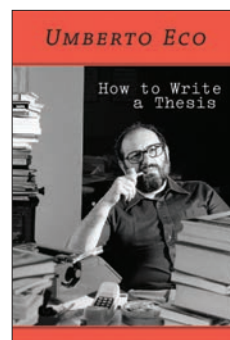
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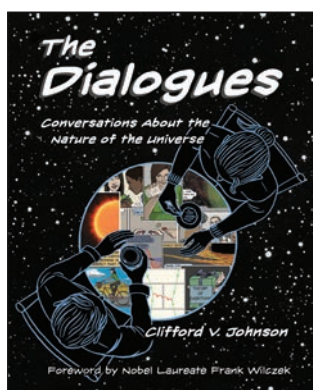
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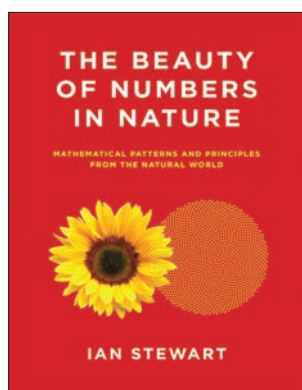
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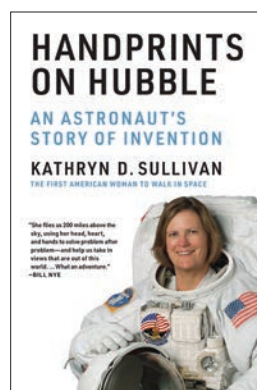
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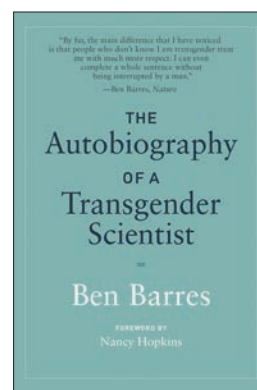
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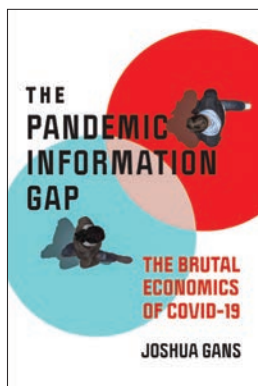
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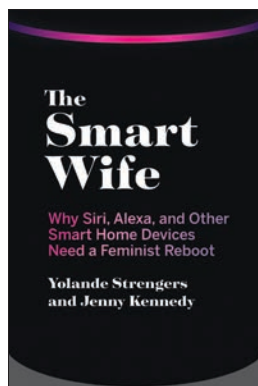
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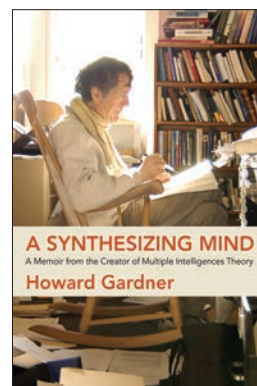
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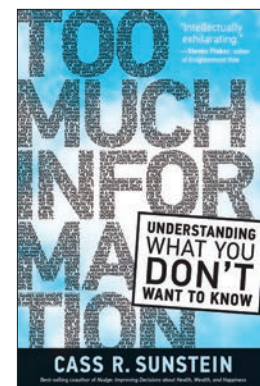
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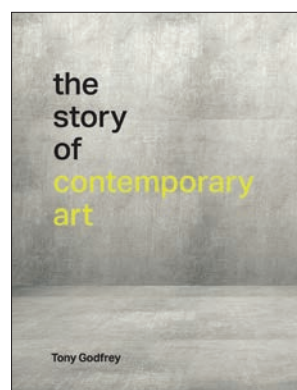
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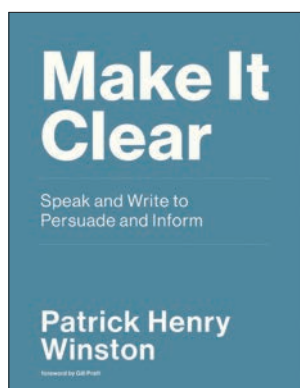
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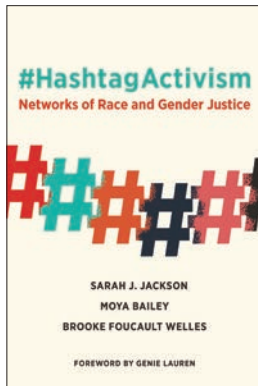
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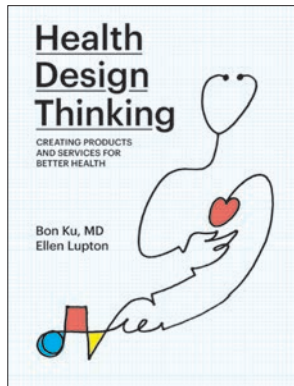
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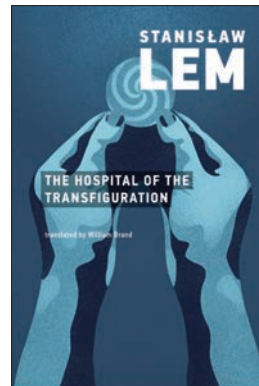
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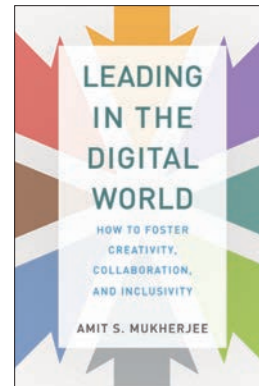
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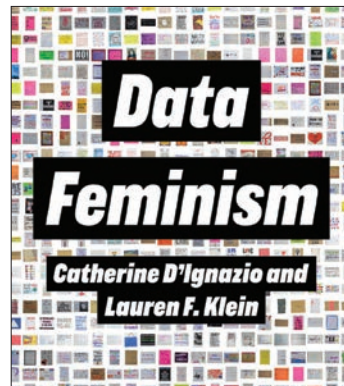
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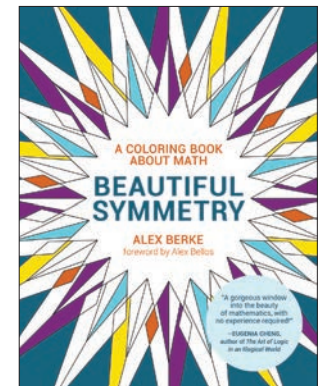
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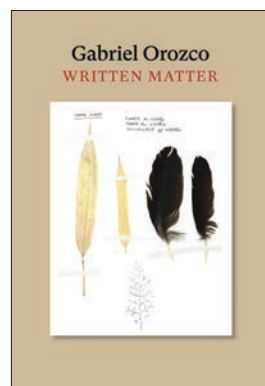
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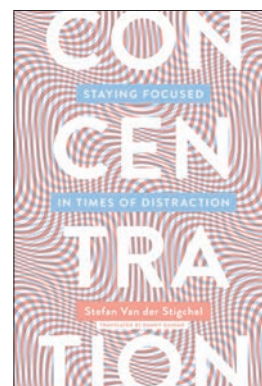
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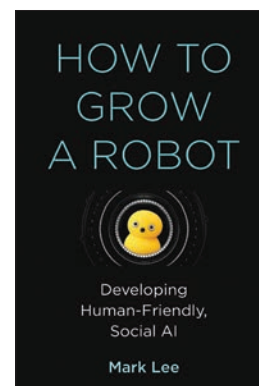
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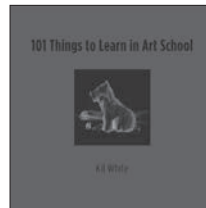
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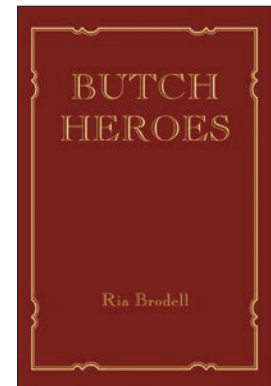
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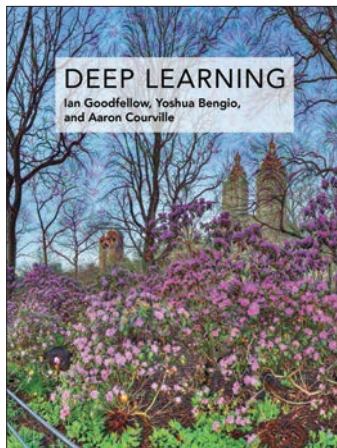
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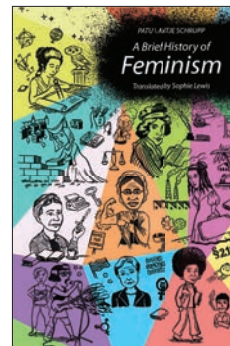
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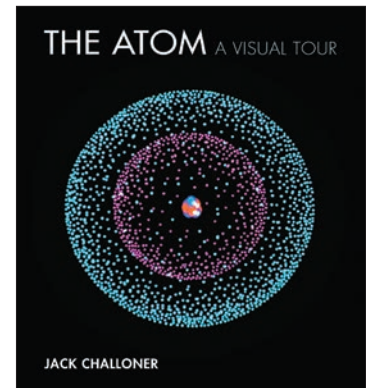
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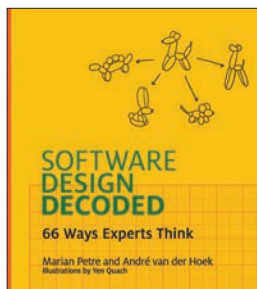
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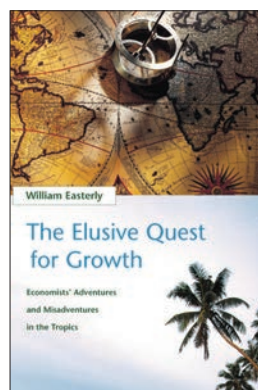
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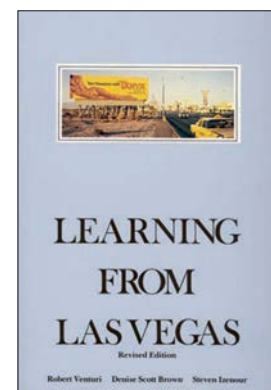
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