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Autumn 2021



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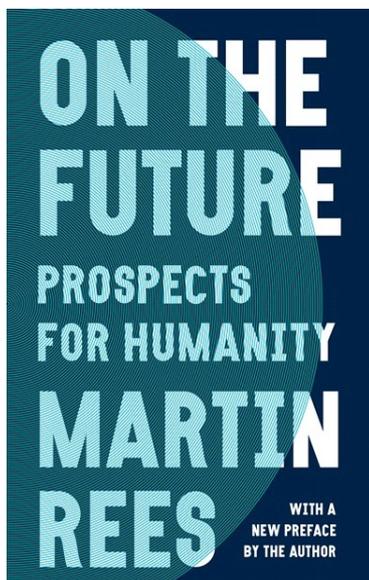


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Catalogue Contents

	Page
New Titles.....	1
New in Paperback.....	9
Recently Published.....	15
Herve This – Molecular Gastronomy.....	19
Climate Science.....	20
The Mind	22
Isaac Newton	23
Donald R. Prothero – Palaeontology.....	24
Best of Backlist.....	26
Backlist	30
Index.....	39
How to order	50



On the Future

Prospects for Humanity

Martin Rees

A provocative and inspiring look at the future of humanity and science from world-renowned scientist and bestselling author Martin Rees

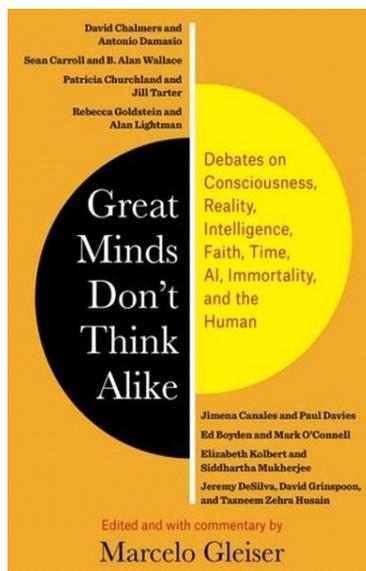
Humanity has reached a critical moment. Our world is unsettled and rapidly changing, and we face existential risks over the next century. Various outcomes—good and bad—are possible. Yet our approach to the future is characterized by short-term thinking, polarizing debates, alarmist rhetoric, and pessimism. In this short, exhilarating book, renowned scientist and bestselling author Martin Rees argues that humanity's prospects depend on our taking a very different approach to planning for tomorrow.

The future of humanity is bound to the future of science and hinges on how successfully we harness technological advances to address our challenges. If we are to use science to solve our problems while avoiding its dystopian risks, we must think rationally, globally, collectively, and optimistically about the long term. Advances in biotechnology, cybertechnology, robotics, and artificial intelligence—if pursued and applied wisely—could empower us to boost the developing and developed world and overcome the threats humanity faces on Earth, from climate change to nuclear war. At the same time, further advances in space science will allow humans to explore the solar system and beyond with robots and AI. But there is no “Plan B” for Earth—no viable alternative within reach if we do not care for our home planet.

Rich with fascinating insights into cutting-edge science and technology, this accessible book will captivate anyone who wants to understand the critical issues that will define the future of humanity on Earth and beyond.

9780691231068
\$12.95 | £9.99
Paperback
280 pages | 120.65mm : 187.32mm
2021

Science / Biotechnology
Princeton University Press



Great Minds Don't Think Alike

Debates on Consciousness, Reality, Intelligence, Faith, Time, AI, Immortality, and the Human

Marcelo Gleiser

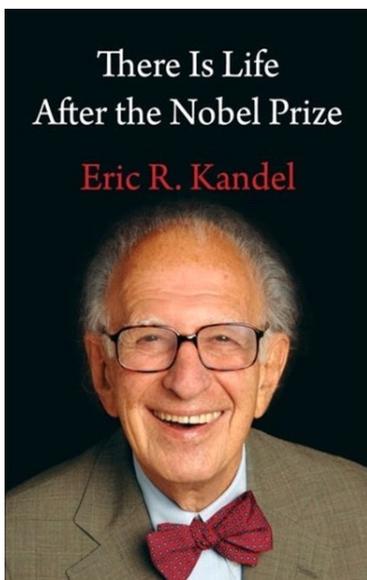
Does technology change who we are, and if so, in what ways? Can humanity transcend physical bodies and spaces? Will AI and genetic engineering help us reach new heights or will they unleash dystopias? How do we face mortality, our own and that of our warming planet? Questions like these—which are only growing more urgent—can be answered only by drawing on different kinds of knowledge and ways of knowing. They challenge us to bridge the divide between the sciences and the humanities and bring together perspectives that are too often kept apart.

Great Minds Don't Think Alike presents conversations among leading scientists, philosophers, historians, and public intellectuals that exemplify openness to diverse viewpoints and the productive exchange of ideas. Pulitzer and Templeton Prize winners, MacArthur “genius” grant awardees, and other acclaimed writers and thinkers debate the big questions: who we are, the nature of reality, science and religion, consciousness and materialism, and the mysteries of time. In so doing, they also inquire into how uniting experts from different areas of study to consider these topics might help us address the existential risks we face today. Convened and moderated by the physicist and author Marcelo Gleiser, these public dialogues model constructive engagement between the sciences and the humanities—and show why intellectual cooperation is necessary to shape our collective future.

Contributors include David Chalmers and Antonio Damasio; Sean Carroll and B. Alan Wallace; Patricia Churchland and Jill Tarter; Rebecca Goldstein and Alan Lightman; Jimena Canales and Paul Davies; Ed Boyden and Mark O'Connell; Elizabeth Kolbert and Siddhartha Mukherjee; Jeremy DeSilva, David Grinspoon, and Tasneem Zehra Husain.

9780231204118
\$19.95 | £14.99
Paperback
264 pages | 152.4mm : 228.6mm
2022

Science / Philosophy & Social Aspects
Columbia University Press



There Is Life After the Nobel Prize

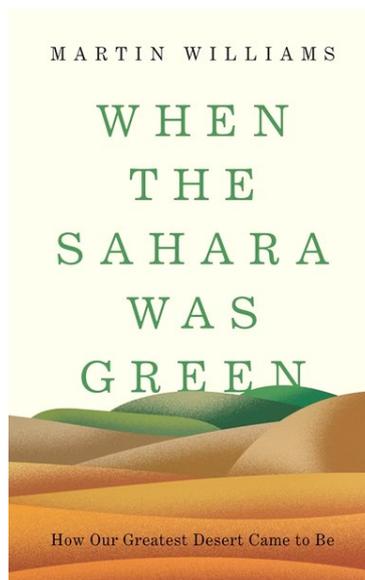
Eric Kandel

One day in 1996, the neuroscientist Eric R. Kandel took a call from his project officer at the National Institute of Mental Health, who informed him that he had been awarded a key grant. Also, the officer said, he and his colleagues thought Kandel would win the Nobel Prize. “I hope not soon,” Kandel’s wife, Denise, said when she heard this. Sociologists had found that Nobel recipients often did not contribute much more to science, she explained.

In this book, Kandel recounts his remarkable career since receiving the Nobel in 2000—or his experience of proving to his wife that he was not yet “completely dead intellectually.” He takes readers through his lab’s scientific advances, including research into how long-term memory is stored in the brain and age-related memory loss as well as the neuroscience of drug addiction and schizophrenia. Kandel relates how the Nobel gave him the opportunity to reach a far larger audience, which in turn allowed him to discover and pursue new directions. He describes his efforts to promote public understanding of science and to put brain science and art into conversation. Kandel also discusses his return to Austria, which he had fled as a child, and observing its coming to terms with the Nazi period. Showcasing Kandel’s accomplishments, erudition, and wit, *There Is Life After the Nobel Prize* is a candid account of the working life of an acclaimed scientist.

9780231200141
\$19.95 | £14.99
Hardback
112 pages | 128.524mm : 198.374mm
2022

SCIENCE / Life Sciences
Columbia University Press



When the Sahara Was Green

How Our Greatest Desert Came to Be

Martin Williams

The little-known history of how the Sahara was transformed from a green and fertile land into the largest hot desert in the world

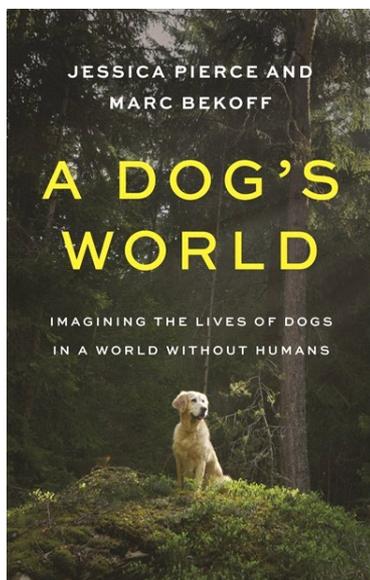
The Sahara is the largest hot desert in the world, equal in size to China or the United States. Yet, this arid expanse was once a verdant, pleasant land, fed by rivers and lakes. The Sahara sustained abundant plant and animal life, such as Nile perch, turtles, crocodiles, and hippos, and attracted prehistoric hunters and herders. What transformed this land of lakes into a sea of sands? *When the Sahara Was Green* describes the remarkable history of Earth’s greatest desert—including why its climate changed, the impact this had on human populations, and how scientists uncovered the evidence for these extraordinary events.

From the Sahara’s origins as savanna woodland and grassland to its current arid incarnation, Martin Williams takes us on a vivid journey through time. He describes how the desert’s ancient rocks were first fashioned, how dinosaurs roamed freely across the land, and how it was later covered in tall trees. Along the way, Williams addresses many questions: Why was the Sahara previously much wetter, and will it be so again? Did humans contribute to its desertification? What was the impact of extreme climatic episodes—such as prolonged droughts—upon the Sahara’s geology, ecology, and inhabitants? Williams also shows how plants, animals, and humans have adapted to the Sahara and what lessons we might learn for living in harmony with the harshest, driest conditions in an ever-changing global environment.

A valuable look at how an iconic region has changed over millions of years, *When the Sahara Was Green* reveals the desert’s surprising past to reflect on its present, as well as its possible future.

9780691201627
\$27.95 | £22.00
Hardback
272 pages | 155.57mm : 234.95mm
2021

SCIENCE / Earth Sciences
Princeton University Press



A Dog's World

Imagining the Lives of Dogs in a World without Humans

Jessica Pierce, Marc Bekoff

From two of the world's leading authorities on dogs, an imaginative journey into a future of dogs without people

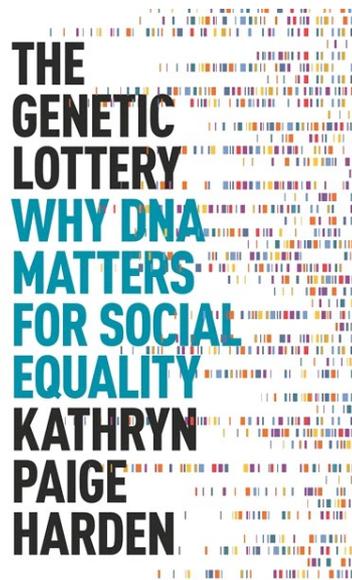
What would happen to dogs if humans simply disappeared? Would dogs be able to survive on their own without us? *A Dog's World* imagines a posthuman future for dogs, revealing how dogs would survive—and possibly even thrive—and explaining how this new and revolutionary perspective can guide how we interact with dogs now.

Drawing on biology, ecology, and the latest findings on the lives and behavior of dogs and their wild relatives, Jessica Pierce and Marc Bekoff—two of today's most innovative thinkers about dogs—explore who dogs might become without direct human intervention into breeding, arranged playdates at the dog park, regular feedings, and veterinary care. Pierce and Bekoff show how dogs are quick learners who are highly adaptable and opportunistic, and they offer compelling evidence that dogs already do survive on their own—and could do so in a world without us.

Challenging the notion that dogs would be helpless without their human counterparts, *A Dog's World* enables us to understand these independent and remarkably intelligent animals on their own terms.

9780691196183
\$22.95 | £17.99
Hardback
240 pages | 139.7mm : 215.9mm
2021

Nature / Mammals
Princeton University Press



The Genetic Lottery

Why DNA Matters for Social Equality

Kathryn Paige Harden

A provocative and timely case for how the science of genetics can help create a more just and equal society

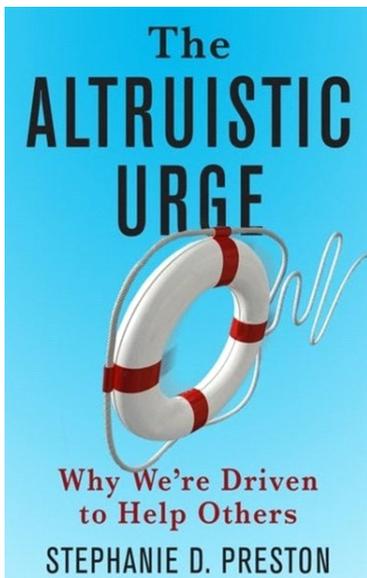
In recent years, scientists like Kathryn Paige Harden have shown that DNA makes us different, in our personalities and in our health—and in ways that matter for educational and economic success in our current society.

In *The Genetic Lottery*, Harden introduces readers to the latest genetic science, dismantling dangerous ideas about racial superiority and challenging us to grapple with what equality really means in a world where people are born different. Weaving together personal stories with scientific evidence, Harden shows why our refusal to recognize the power of DNA perpetuates the myth of meritocracy, and argues that we must acknowledge the role of genetic luck if we are ever to create a fair society.

Reclaiming genetic science from the legacy of eugenics, this groundbreaking book offers a bold new vision of society where everyone thrives, regardless of how one fares in the genetic lottery.

9780691190808
\$29.95 | £25.00
Hardback
312 pages | 164mm : 244mm
2021

Science / Life Sciences
Princeton University Press



The Altruistic Urge

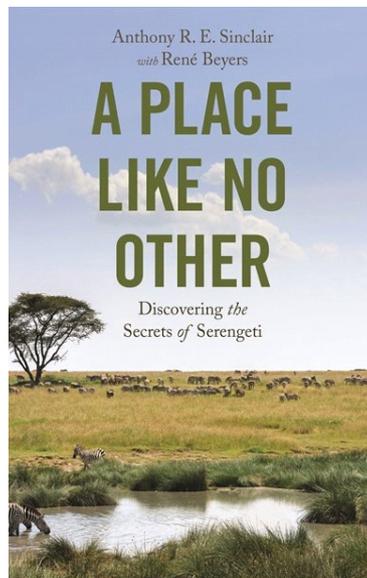
Why We're Driven to Help Others
Stephanie D. Preston

Ordinary people can perform acts of astonishing selflessness, sometimes even putting their lives on the line. A pregnant woman saw a dorsal fin and blood in the water—and dove right in to pull her wounded husband to safety. Remarkably, some even leap into action to save complete strangers: One New York man jumped onto the subway tracks to rescue a boy who had fallen into the path of an oncoming train. Such behavior is not uniquely human. Researchers have found that mother rodents are highly motivated to bring newborn pups—not just their own—back to safety. What do these stories have in common, and what do they reveal about the instinct to protect others?

In *The Altruistic Urge*, Stephanie D. Preston explores how and why we developed a surprisingly powerful drive to help the vulnerable. She argues that the neural and psychological mechanisms that evolved to safeguard offspring also motivate people to save strangers in need of immediate aid. Eye-catching dramatic rescues bear a striking similarity to how other mammals retrieve their young and help explain more mundane forms of support like donating money. Merging extensive interdisciplinary research that spans psychology, neuroscience, neurobiology, and evolutionary biology, Preston develops a groundbreaking model of altruistic responses. Her theory accounts for extraordinary feats of bravery, all-too-common apathy, and everything in between—and it can also be deployed to craft more effective appeals to assist those in need.

9780231204408
\$35.00 | £28.00
Hardback
312 pages | 139.7mm : 215.9mm
2022

SCIENCE / Life Sciences
Columbia University Press



A Place like No Other

Discovering the Secrets of Serengeti
Anthony R. E. Sinclair, René Beyers

From famed zoologist Anthony Sinclair, an account of his decades-long quest to understand one of Earth's most spectacular ecosystems

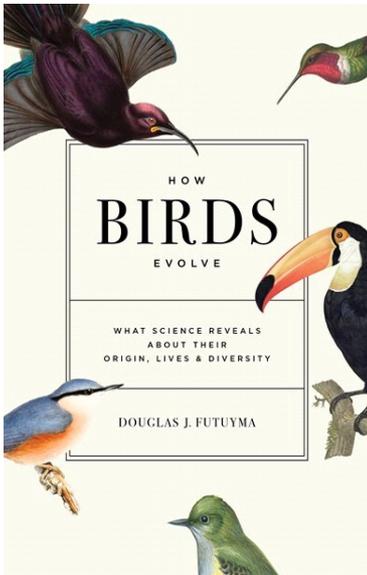
With its rich biodiversity, astounding wildlife, and breathtaking animal migrations, Serengeti is like no other ecosystem on the planet. *A Place like No Other* is Anthony Sinclair's firsthand account of how he and other scientists discovered the biological principles that regulate life in Serengeti and how they rule all of the natural world.

When Sinclair first began studying this spectacular ecosystem in 1965, a host of questions confronted him. What environmental features make its annual migration possible? What determines the size of animal populations and the stunning diversity of species? What factors enable Serengeti to endure over time? In the five decades that followed, Sinclair and others sought answers. What they learned is that seven principles of regulation govern all natural processes in the Serengeti ecosystem. Sinclair shows how these principles can help us to understand and overcome the challenges facing Serengeti today, and how they can be used to repair damaged habitats throughout the world.

Blending vivid storytelling with invaluable scientific insights from Sinclair's pioneering fieldwork in Africa, *A Place like No Other* reveals how Serengeti holds timely lessons for the restoration and conservation of our vital ecosystems.

9780691222332
\$29.95 | £25.00
Hardback
304 pages | 155.57mm : 234.95mm
2021

Science / Life Sciences
Princeton University Press



How Birds Evolve

What Science Reveals about Their Origin, Lives, and Diversity

Douglas J. Futuyma

A marvelous journey into the world of bird evolution

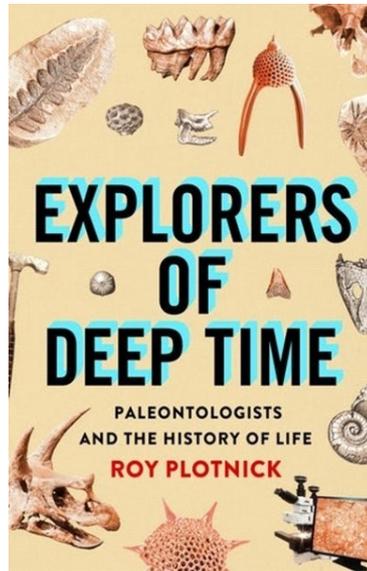
How Birds Evolve explores how evolution has shaped the distinctive characteristics and behaviors we observe in birds today. Douglas Futuyma describes how evolutionary science illuminates the wonders of birds, ranging over topics such as the meaning and origin of species, the evolutionary history of bird diversity, and the evolution of avian reproductive behaviors, plumage ornaments, and social behaviors.

In this multifaceted book, Futuyma examines how birds evolved from nonavian dinosaurs and reveals what we can learn from the "family tree" of birds. He looks at the ways natural selection enables different forms of the same species to persist, and discusses how adaptation by natural selection accounts for the diverse life histories of birds and the rich variety of avian parenting styles, mating displays, and cooperative behaviors. He explains why some parts of the planet have so many more species than others, and asks what an evolutionary perspective brings to urgent questions about bird extinction and habitat destruction. Along the way, Futuyma provides an insider's perspective on how biologists practice evolutionary science, from studying the fossil record to comparing DNA sequences among and within species.

A must-read for bird enthusiasts and curious naturalists, *How Birds Evolve* shows how evolutionary biology helps us better understand birds and their natural history, and how the study of birds has informed all aspects of evolutionary science since the time of Darwin.

9780691182629
\$29.95 | £25.00
Hardback
320 pages | 155.45mm : 234.95mm
2021

Science / Life Sciences
Princeton University Press



Explorers of Deep Time

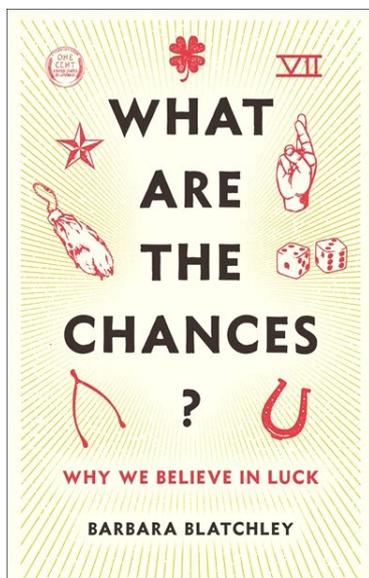
Paleontologists and the History of Life
Roy Plotnick

Paleontology is one of the most visible yet most misunderstood fields of science. Children dream of becoming paleontologists when they grow up. Museum visitors flock to exhibits on dinosaurs and other prehistoric animals. The media reports on fossil discoveries and new clues to mass extinctions. Nonetheless, misconceptions abound: paleontologists are assumed only to be interested in dinosaurs and they are all too often pictured as bearded white men in battered cowboy hats.

Roy Plotnick provides a behind-the-scenes look at paleontology as it exists today in all its complexity. He explores the field's aims, methods, and possibilities, with an emphasis on the compelling personal stories of the scientists who have made it a career. Paleontologists study the entire history of life on Earth; they do not only use hammers and chisels to unearth fossils but are just as likely to work with cutting-edge computing technology. Plotnick presents the big questions about life's history that drive paleontological research and shows why knowledge of Earth's past is essential to understanding present-day environmental crises. He introduces readers to the diverse group of people of all genders, races, and international backgrounds who make up the twenty-first-century paleontology community, foregrounding their perspectives and firsthand narratives. He also frankly discusses the many challenges that face the profession, with key takeaways for aspiring scientists. Candid and comprehensive, *Explorers of Deep Time* is essential reading for anyone curious about the everyday work of real-life paleontologists.

9780231195348
\$35.00 | £28.00
Hardback
312 pages | 155.575mm : 234.95mm
2022

Science / Paleontology
Columbia University Press



What Are the Chances?

Why We Believe in Luck

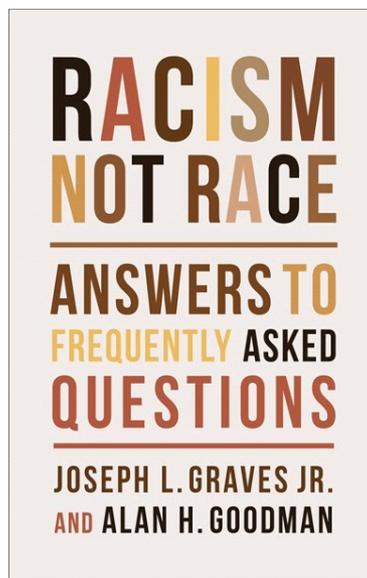
Barbara Blatchley

Most of us, no matter how rational we think we are, have a lucky charm, a good-luck ritual, or some other custom we follow in the hope that it will lead to a good result. Is the idea of luckiness just a way in which we try to impose order on chaos? Do we live in a world of flukes and coincidences, good and bad breaks, with outcomes as random as a roll of the dice—or can our beliefs help change our luck?

What Are the Chances? reveals how psychology and neuroscience explain the significance of the idea of luck. Barbara Blatchley explores how people react to random events in a range of circumstances, examining the evidence that the belief in luck helps us cope with a lack of control. She tells the stories of lucky and unlucky people—who won the lottery multiple times, survived seven brushes with death, or found an apparently cursed Neanderthal mummy—as well as the accidental discoveries that fundamentally changed what we know about the brain. Blatchley considers our frequent misunderstanding of randomness, the history of luckiness in different cultures and religions, the surprising benefits of magical thinking, and many other topics. Offering a new view of how the brain handles the unexpected, *What Are the Chances?* shows why an arguably irrational belief can—fingers crossed—help us as we struggle with an unpredictable world.

9780231198684
\$27.95 | £22.00
Hardback
248 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press



Racism, Not Race

Answers to Frequently Asked Questions

Joseph L. Graves, Jr., Alan H. Goodman

The science on race is clear. Common categories like “Black,” “white,” and “Asian” do not represent genetic differences among groups. But if race is a pernicious fiction according to natural science, it is all too significant in the day-to-day lives of racialized people across the globe. Inequities in health, wealth, and an array of other life outcomes cannot be explained without referring to “race”—but their true source is *racism*. What do we need to know about the pseudoscience of race in order to fight racism and fulfill human potential?

In this book, two distinguished scientists tackle common misconceptions about race, human biology, and racism. Using an accessible question-and-answer format, Joseph L. Graves Jr. and Alan H. Goodman explain the differences between social and biological notions of race. Although there are many meaningful human genetic variations, they do not map onto socially constructed racial categories. Drawing on evidence from both natural and social science, Graves and Goodman dismantle the malignant myth of gene-based racial difference. They demonstrate that the ideology of racism created races and show why the inequalities ascribed to race are in fact caused by racism.

Graves and Goodman provide persuasive and timely answers to key questions about race and racism for a moment when people of all backgrounds are striving for social justice. *Racism, Not Race* shows readers why antiracist principles are both just and backed by sound science.

9780231200660
\$27.95 | £22.00
Hardback
312 pages | 155.575mm : 234.95mm
2022

Science / Philosophy & Social Aspects
Columbia University Press



Treepedia

A Brief Compendium of Arboreal Lore
Joan Maloof, Maren Westfall

A captivating A–Z treasury for the tree hugger in all of us

Treepedia is an entertaining and fact-filled illustrated compendium of tree lore. Featuring nearly 100 entries—on topics ranging from tree ecology and conservation to the role of trees in religion, literature, art, and movies—this enticing collection is a celebration of all things arboreal.

In this charming book, Joan Maloof explains the difference between a cedar and a cypress, and reveals where to find the most remarkable trees on the planet. She tells the story behind the venerable Bodhi Tree, and describes peculiar species like baobabs and *Fitzroya*. Maloof profiles legendary conservationists such as Julia "Butterfly" Hill, John Muir, Wangari Maathai, and Ken Wu. She discusses reforestation, proforestation, emerald ash borers, the ents from *The Lord of the Rings*, culturally modified trees, the ill-fated and controversial Redwood Summer, and much more. The book's portable size makes it the perfect travel companion no matter where your love of the forest may lead you.

With enchanting illustrations by Maren Westfall, *Treepedia* is a fun and informative book that is guaranteed to inspire anyone who has ever enjoyed a walk in the woods.

- Features a real cloth cover with an elaborate foil-stamped design
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9780691208756
\$16.95 | £9.99
Hardback
152 pages | 114mm : 171mm
2021

Nature / Trees & Forests
Pedia Books
Princeton University Press



Dinopedia

A Brief Compendium of Dinosaur Lore
Darren Naish

An illuminating and entertaining collection of dinosaur facts, from A to Z

Dinopedia is an illustrated, pocket-friendly encyclopedia of all things dinosaurian. Featuring dozens of entries on topics ranging from hadrosaur nesting colonies to modern fossil hunters and paleontologists such as Halszka Osmólska and Paul Sereno, this amazing A–Z compendium is brimming with facts about these thrilling, complex, and sophisticated animals.

Almost everything we know about dinosaurs has changed in recent decades. A scientific revolution, kick-started in the late 1960s by astounding new discoveries and a succession of new ideas, has shown that these magnificent creatures were marvels of evolution that surpassed modern reptiles and mammals in size, athletic abilities, and more. Darren Naish sheds invaluable light on our current, fast-changing understanding of dinosaur diversity and evolutionary history, and discusses the cultural impacts of dinosaurs through books, magazines, and movies. Naish also shows how our emerging view of these animals is very much a human story about ambition and competing egos, revealing that controversy and disagreement are commonplace in the vigorous field of dinosaur studies.

With a wealth of original illustrations by the author, *Dinopedia* is an informative and entertaining collection of lore for the dinosaur lover in all of us.

- Features a real cloth cover with an elaborate foil-stamped design

9780691212029
\$16.95 | £9.99
Hardback
216 pages | 114mm : 177mm
2021

Nature / Dinosaurs & Prehistoric Creatures
Pedia Books
Princeton University Press



Florapedia

A Brief Compendium of Floral Lore
Carol Gracie, Amy Jean Porter

A delightful illustrated treasury of botanical facts and fancy

Florapedia is an eclectic A–Z compendium of botanical lore. With more than 100 enticing entries—on topics ranging from achlorophyllous plants that use a fungus as an intermediary to obtain nutrients from other plants to zygomorphic flowers that admit only the most select pollinators—this collection is a captivating journey into the realm of botany.

Writing in her incomparably engaging style, Carol Gracie discusses remarkable plants from around the globe, botanical art and artists, early botanical explorers, ethnobotanical uses of plants, botanical classification and terminology, the role of plants in history, and more. She shares illuminating facts about van Gogh's sunflowers and reveals how a hallucinogenic weed left its enduring mark on the early history of the Jamestown colony. Gracie describes the travels of John and William Bartram—father and son botanists and explorers who roamed widely in early America in search of plants—and delves into the miniature ecosystems entangled in Spanish moss. The book's convenient size allows for it to be tucked into a pocket or bag, making it the perfect companion on your own travels.

With charming drawings by Amy Jean Porter, *Florapedia* is the ideal gift book for the plant enthusiast in your life and a rare pleasure for anyone interested in botanical art, history, medicine, or exploration.

- Features a real cloth cover with an elaborate foil-stamped design

9780691211404
\$16.95 | £9.99
Hardback
200 pages | 114.3mm : 171.45mm
2021

Nature / Flowers
Pedia Books
Princeton University Press



Fungipedia

A Brief Compendium of Mushroom Lore
Lawrence Millman, Amy Jean Porter

"This little book is big fun."—Michael Pollan

An illustrated mini-encyclopedia of fungal lore, from John Cage and Terence McKenna to mushroom sex and fairy rings

Fungipedia presents a delightful A–Z treasury of mushroom lore. With more than 180 entries—on topics as varied as *Alice in Wonderland*, chestnut blight, medicinal mushrooms, poisonings, Santa Claus, and waxy caps—this collection will transport both general readers and specialists into the remarkable universe of fungi.

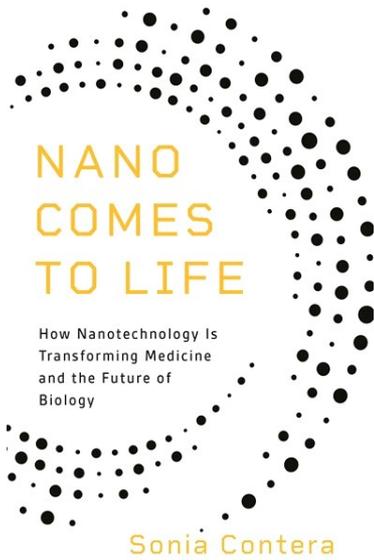
Combining ecological, ethnographic, historical, and contemporary knowledge, author and mycologist Lawrence Millman discusses how mushrooms are much more closely related to humans than to plants, how they engage in sex, how insects farm them, and how certain species happily dine on leftover radiation, cockroach antennae, and dung. He explores the lives of individuals like African American scientist George Washington Carver, who specialized in crop diseases caused by fungi; Beatrix Potter, creator of *Peter Rabbit*, who was prevented from becoming a professional mycologist because she was a woman; and Gordon Wasson, a J. P. Morgan vice-president who almost single-handedly introduced the world to magic mushrooms. Millman considers why fungi are among the most significant organisms on our planet and how they are currently being affected by destructive human behavior, including climate change.

With charming drawings by artist and illustrator Amy Jean Porter, *Fungipedia* offers a treasure trove of scientific and cultural information. The world of mushrooms lies right at your door—be amazed!

- Features a real cloth cover with an elaborate foil-stamped design

9780691194721
\$16.95 | £9.99
Hardback
200 pages | 114.3mm : 171.45mm
2019

Nature / Mushrooms
Pedia Books
Princeton University Press



Nano Comes to Life

How Nanotechnology Is Transforming Medicine and the Future of Biology

Sonia Contera

The nanotechnology revolution that will transform human health and longevity

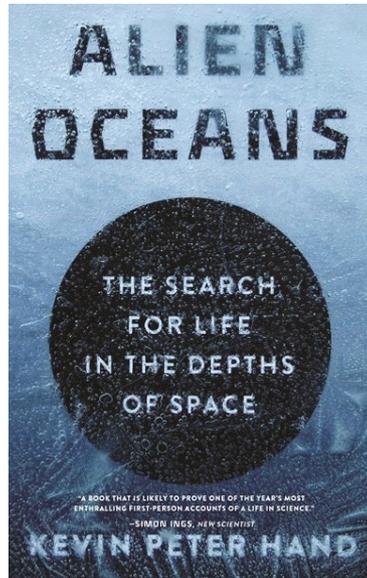
Nano Comes to Life opens a window onto the nanoscale—the infinitesimal realm of proteins and DNA where physics and cellular and molecular biology meet—and introduces readers to the rapidly evolving nanotechnologies that are allowing us to manipulate the very building blocks of life. Sonia Contera gives an insider's perspective on this new frontier, revealing how nanotechnology enables a new kind of multidisciplinary science that is poised to give us control over our own biology, our health, and our lives.

Drawing on her perspective as one of today's leading researchers in the field, Contera describes the exciting ways in which nanotechnology makes it possible to understand, interact with, and manipulate biology—such as by designing and building artificial structures and even machines at the nanoscale using DNA, proteins, and other biological molecules as materials. In turn, nanotechnology is revolutionizing medicine in ways that will have profound effects on our health and longevity, from nanoscale machines that can target individual cancer cells and deliver drugs more effectively, to nanoantibiotics that can fight resistant bacteria, to the engineering of tissues and organs for research, drug discovery, and transplantation.

The future will bring about the continued fusion of nanotechnology with biology, physics, medicine, and cutting-edge fields like robotics and artificial intelligence, ushering us into a new "transmaterial era." As we contemplate the power, advantages, and risks of accessing and manipulating our own biology, Contera offers insight and hope that we may all share in the benefits of this revolutionary research.

9780691206448
\$18.95 | £14.99
Paperback
240 pages | 203.2mm : 133.35mm
2021

Science / Nanostructures
Princeton University Press



Alien Oceans

The Search for Life in the Depths of Space
Kevin Hand

Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system

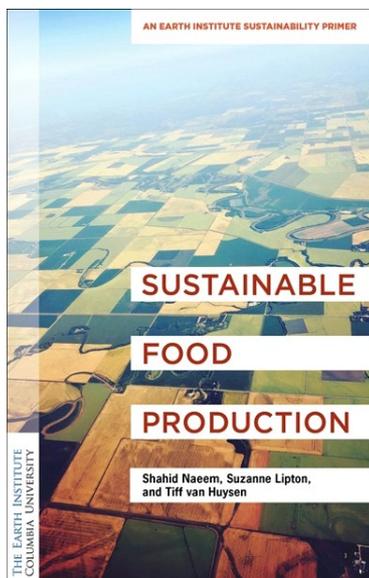
Where is the best place to find life beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths? *Alien Oceans* reveals the science behind the thrilling quest to find out.

Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has taken him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds.

Alien Oceans describes what lies ahead in our search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

9780691227283
\$18.95 | £14.99
Paperback
304 pages | 133.35mm : 203.2mm
2021

SCIENCE / Space Science
Princeton University Press



Sustainable Food Production

An Earth Institute Sustainability Primer
Shahid Naeem, Suzanne Lipton, Tiff van Huysen

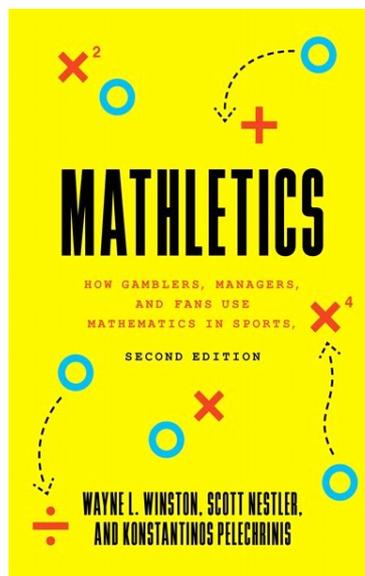
Industrial agriculture is responsible for widespread environmental degradation and undermines the pursuit of human well-being. With a projected global population of 10 billion by 2050, it is urgent for humanity to achieve a more sustainable approach to farming and food systems.

This concise text offers an overview of the key issues in sustainable food production for all readers interested in the ecology and environmental impacts of agriculture. It details the ecological foundations of farming and food systems, showing how knowledge from the natural and social sciences can be used to create sustainable alternatives to the industrial production methods used today. Beginning with a discussion of the role of agriculture in human development, the primer examines how twentieth-century farming methods are environmentally and socially unsustainable, contributing to global change and perpetuating inequalities. The authors explain the principles of environmental sustainability and explore how these principles can be put into practice in agrifood systems. They emphasize the importance of human well-being and insist on the centrality of social and environmental equity and justice.

Sustainable Food Production is a compelling guide to how we can improve our ability to feed each other today and preserve the ability of our planet to do so tomorrow. Appropriate for a range of courses in the natural and social sciences, it provides a comprehensive yet accessible framework for achieving agricultural sustainability in the Anthropocene.

9780231189651
 \$20.00 | £14.99
 Paperback
 224 pages | 139.7mm : 215.9mm
 2021

Technology & Engineering / Agriculture
 Columbia University Earth Institute
 Sustainability Primers
Columbia University Press



Mathletics

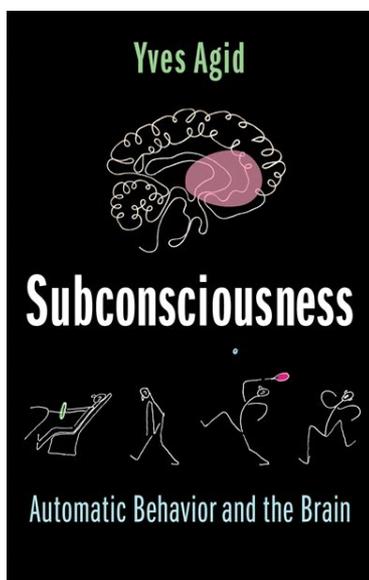
How Gamblers, Managers, and Fans Use
 Mathematics in Sports, Second Edition
**Wayne L. Winston, Scott Nestler,
 Konstantinos Pelechrinis**

How to use math to improve performance and predict outcomes in professional sports

Mathletics reveals the mathematical methods top coaches and managers use to evaluate players and improve team performance, and gives math enthusiasts the practical skills they need to enhance their understanding and enjoyment of their favorite sports—and maybe even gain the outside edge to winning bets. This second edition features new data, new players and teams, and new chapters on soccer, e-sports, golf, volleyball, gambling Calcuttas, analysis of camera data, Bayesian inference, ridge regression, and other statistical techniques. After reading *Mathletics*, you will understand why baseball teams should almost never bunt; why football overtime systems are unfair; why points, rebounds, and assists aren't enough to determine who's the NBA's best player; and more.

9780691177625
 \$19.95 | £14.99
 Paperback
 432 pages | 155.45mm : 234.95mm
 2022

Computers / Databases
Princeton University Press



Subconsciousness

Automatic Behavior and the Brain

Yves Agid

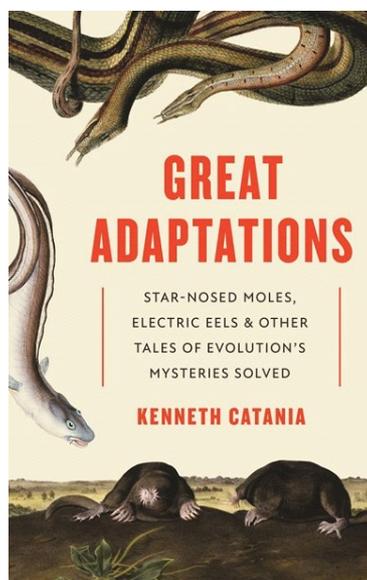
We are conscious of only a small fraction of our lives. Because the brain constantly receives an enormous quantity of information, we need to be able to do things without thinking about them—to act in “autopilot” mode. Automatic behaviors—the vast majority of our activities—occur without our conscious awareness, or subconsciously. Yet the physiological basis of subconsciousness remains poorly understood, despite its vast importance for physical and mental health.

The neurodegenerative disease expert Yves Agid offers a groundbreaking and accessible account of subconsciousness and its significance. He pinpoints the basal ganglia—the ancient “basement of the brain”—as the main physiological hub of the subconscious. Agid examines its roles in the control and production of automatic behavior, including motor, intellectual, and emotional processes. He highlights the consequences for various brain pathologies, showing how malfunctions of the subconscious have clinical repercussions including not only abnormal involuntary movements, as seen in Parkinson’s disease, but also psychiatric disorders such as obsessive-compulsive disorders and depression. Based on this understanding, Agid considers how seeing the basal ganglia as a therapeutic target can aid development of potential new treatments for neurological and psychiatric disorders.

Shedding new light on the physiological bases of our behavior and mental states, this book provides an innovative exploration of the complexities of the mind, with implications ranging from clinical applications to philosophy’s thorniest problems.

9780231201278
\$24.00 | £18.99
Paperback
128 pages | 131mm : 199mm
2021

SCIENCE / Life Sciences
Columbia University Press



Great Adaptations

Star-Nosed Moles, Electric Eels, and Other Tales of Evolution’s Mysteries Solved

Kenneth Catania

“The irresistible enthusiasm of *Great Adaptations* couldn’t come at a better time.”—David P. Barash, *Wall Street Journal*

“Be very amazed.”—Carl Safina, author of *Beyond Words* and *Becoming Wild*

How one scientist unlocked the secrets behind some of nature’s most astounding animals

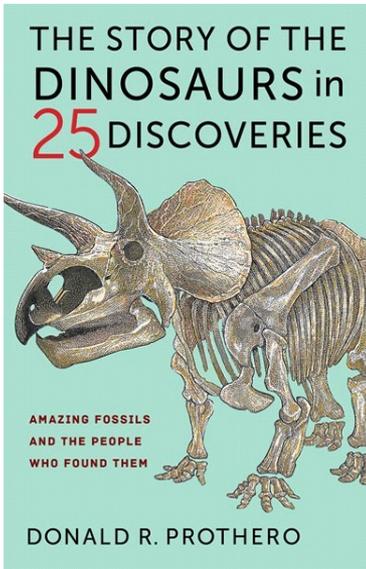
From star-nosed moles that have super-sensing snouts to electric eels that paralyze their prey, animals possess unique and extraordinary abilities. In *Great Adaptations*, Kenneth Catania presents an entertaining and engaging look at some of nature’s most remarkable creatures. Telling the story of his biological detective work, Catania sheds light on the mysteries behind the behaviors of tentacled snakes, tiny shrews, zombie-making wasps, and more. He shows not only how studying these animals can provide deep insights into how life evolved, but also how scientific discovery can be filled with adventure and fun.

Beginning with the star-nosed mole, Catania reveals what the creature’s nasal star is actually for, and what this tells us about how brains work. He explores how the deceptive hunting strategy of tentacled snakes leads prey straight to their mouths, how eels use electricity to control other animals, and why emerald jewel wasps make zombies out of cockroaches. He also solves the enigma of worm grunting—a traditional technique in which earthworms are enticed out of the ground—by teaming up with professional worm grunTERS. Catania demonstrates the merits of approaching science with an open mind, considers the role played by citizen scientists, and illustrates that most animals have incredible, hidden abilities that defy our imagination.

Examining some strange and spectacular creatures, *Great Adaptations* offers a wondrous journey into nature’s grand designs.

9780691228471
\$16.95 | £12.99
Paperback
216 pages | 133.35mm : 203.2mm
2021

Science / Natural History
Princeton University Press



The Story of the Dinosaurs in 25 Discoveries

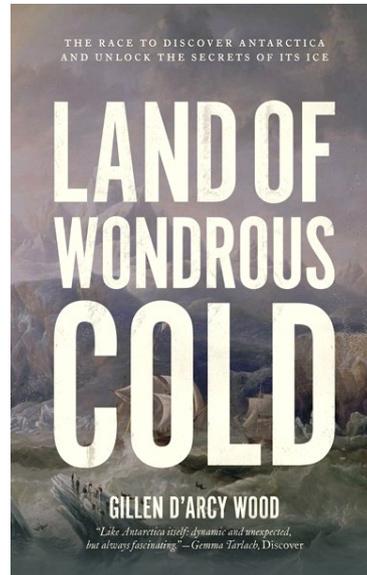
Amazing Fossils and the People Who Found Them
Donald R. Prothero

Today, any kid can rattle off the names of dozens of dinosaurs. But it took centuries of scientific effort—and a lot of luck—to discover and establish the diversity of dinosaur species we now know. How did we learn that *Triceratops* had three horns? Why don't many paleontologists consider *Brontosaurus* a valid species? What convinced scientists that modern birds are relatives of ancient *Velociraptor*?

In *The Story of the Dinosaurs in 25 Discoveries*, Donald R. Prothero tells the fascinating stories behind the most important fossil finds and the intrepid researchers who unearthed them. In twenty-five vivid vignettes, he weaves together dramatic tales of dinosaur discoveries with what modern science now knows about the species to which they belong. Prothero takes us from eighteenth-century sightings of colossal bones taken for biblical giants through recent discoveries of enormous predators even larger than *Tyrannosaurus*. He recounts the escapades of the larger-than-life personalities who made modern paleontology, including scientific rivalries like the nineteenth-century “Bone Wars.” Prothero also details how to draw the boundaries between species and explores debates such as whether dinosaurs had feathers, explaining the findings that settled them or keep them going. Throughout, he offers a clear and rigorous look at what paleontologists consider sound interpretation of evidence. An essential read for any dinosaur lover, this book teaches us to see an ancient world ruled by giant majestic creatures anew.

9780231186032
\$26.00 | £20.00
Paperback
488 pages | 152.4mm : 228.6mm
2021

Science / Paleontology
Columbia University Press



Land of Wondrous Cold

The Race to Discover Antarctica and Unlock the Secrets of Its Ice
Gillen D'Arcy Wood

A gripping history of the polar continent, from the great discoveries of the nineteenth century to modern scientific breakthroughs

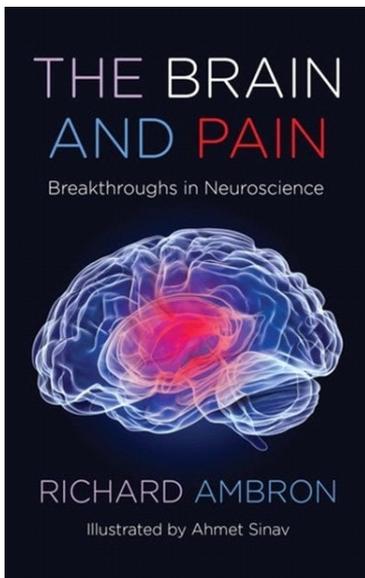
Antarctica, the ice kingdom hosting the South Pole, looms large in the human imagination. The secrets of this vast frozen desert have long tempted explorers, but its brutal climate and glacial shores notoriously resist human intrusion. *Land of Wondrous Cold* tells a gripping story of the pioneering nineteenth-century voyages, when British, French, and American commanders raced to penetrate Antarctica's glacial rim for unknown lands beyond. These intrepid Victorian explorers—James Ross, Dumont D'Urville, and Charles Wilkes—laid the foundation for our current understanding of *Terra Australis Incognita*.

Today, the white continent poses new challenges, as scientists race to uncover Earth's climate history, which is recorded in the south polar ice and ocean floor, and to monitor the increasing instability of the Antarctic ice cap, which threatens to inundate coastal cities worldwide. Interweaving the breakthrough research of the modern Ocean Drilling Program with the dramatic discovery tales of its Victorian forerunners, Gillen D'Arcy Wood describes Antarctica's role in a planetary drama of plate tectonics, climate change, and species evolution stretching back more than thirty million years. An original, multifaceted portrait of the polar continent emerges, illuminating our profound connection to Antarctica in its past, present, and future incarnations.

A deep-time history of monumental scale, *Land of Wondrous Cold* brings the remotest of worlds within close reach—an Antarctica vital to both planetary history and human fortunes.

9780691229041
\$17.95 | £14.99
Paperback
312 pages | 133.35mm : 203.2mm
2021

Science / History
Princeton University Press



The Brain and Pain

Breakthroughs in Neuroscience

Richard Ambron

Pain is an inevitable part of existence, but severe debilitating or chronic pain is a pathological condition that diminishes the quality of life. *The Brain and Pain* explores the present and future of pain management, providing a comprehensive understanding based on the latest discoveries from many branches of neuroscience.

Richard Ambron—the former director of a neuroscience lab that conducted leading research in this field—explains the science of how and why we feel pain. He describes how the nervous system and brain process information that leads to the experience of pain, detailing the cellular and molecular functions that are responsible for the initial perceptions of an injury. He discusses how pharmacological agents such as opiates affect the duration and intensity of pain. Ambron examines new evidence showing that discrete circuits in the brain modulate the experience of pain in response to a placebo, fear, anxiety, belief, or other circumstances, as well as how pain can be relieved by activating these circuits using mindfulness training and other nonpharmacological treatments. The book also evaluates the prospects of procedures such as deep brain stimulation and optogenetics.

Current and thorough, *The Brain and Pain* will be invaluable for a range of people seeking to understand their options for treatment as well as students in neuroscience and medicine.

9780231204873
\$30.00 | £25.00
Paperback
216 pages | 139.7mm : 215.9mm
2022

SCIENCE / Life Sciences
Columbia University Press



Managing Environmental Conflict

An Earth Institute Sustainability Primer

Joshua D. Fisher

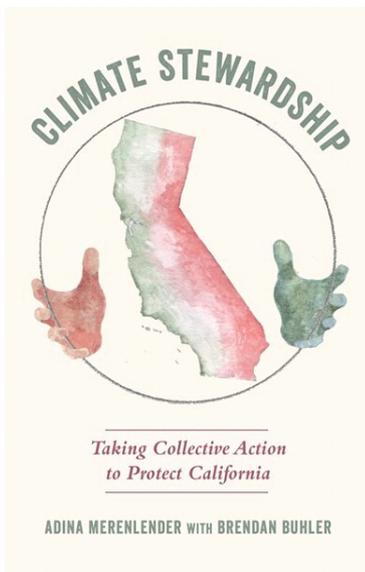
Conflicts frequently arise over environmental issues such as land use, natural resource management, and laws and regulation, emerging from diverging interests and values among stakeholders. This book is a primer on causes of and solutions to such conflicts. It provides a foundational overview of the theory and practice of collaborative approaches to managing environmental disputes.

Joshua D. Fisher explains the core concepts in collaborative conflict management and presents a clear, practical, and implementable framework for understanding and responding to environmental disputes. He details strategies to bring stakeholders together in pursuit of collective solutions, emphasizing ongoing processes of dialogue, analysis, action, and learning. This collaborative approach can create new opportunities for stakeholders to better understand each other and the natural world, which enables more effective and context-appropriate environmental governance. The primer examines why and how system dynamics can constrain or expand the possibility of constructive management of conflicts. It features a case study from the Amazon Basin, where local communities, extractive industry operators, conservationists, and land managers have often clashed over access to natural resources, drawing out lessons to illustrate how to adapt the conflict management framework to distinct contexts.

Managing Environmental Conflict synthesizes knowledge, methods, and practices spanning consensus building, collaborative governance, complex adaptive systems science, environmental conflict resolution, and environmental peacebuilding. Its presentation of this important and timely topic will be invaluable for academics and practitioners alike, including decision makers, scientists, and conflict management professionals.

9780231196871
\$20.00 | £14.99
Paperback
216 pages | 139.7mm : 215.9mm
2022

Science / Environmental Science
Columbia University Earth Institute
Sustainability Primers
Columbia University Press



Climate Stewardship

Taking Collective Action to Protect California
Adina Merenlender, Brendan Buhler, Greg Sarris, Obi Kaufmann

As climate disruption intensifies the world over, Californians are finding solutions across a diversity of communities and landscapes.

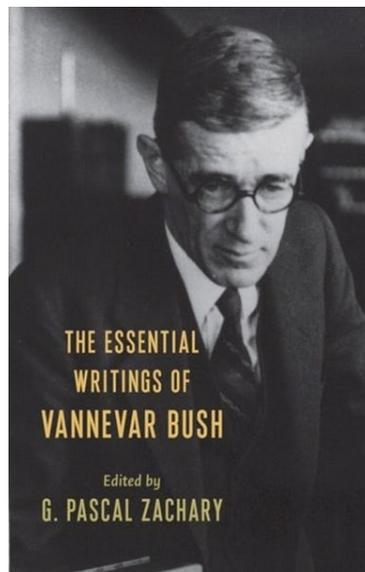
Though climate change is a global existential threat, we cannot wait for nation-states to solve the problem when there are actions we can take now to protect our own communities. In *Climate Stewardship: Taking Collective Action to Protect California*, readers are invited on a journey to discover that all life is interconnected and shaped by climate and to learn how communities can help tackle climate change.

Climate Stewardship shares stories from everyday people and shows how their actions enhance the resilience of communities and ecosystems across ten distinct bioregions. Climate science that justifies these actions is woven throughout, making it easy to learn about Earth's complex systems. The authors interpret and communicate these stories in a way that is enjoyable, inspiring, and even amusing.

California is uniquely positioned to develop and implement novel solutions to widespread climate challenges, owing to the state's remarkable biogeographic diversity and robust public science programs. Produced in collaboration with the UC California Naturalist Program, *Climate Stewardship* focuses on regenerative approaches to energy, agriculture, and land and water use across forested, agricultural, and urban landscapes. The authors' hopeful and encouraging tone aims to help readers develop a sense that they, too, can act now to make meaningful change in their communities.

9780520378940
\$19.95 | £15.99
Paperback
296 pages | 5.5in : 8.25in
2021

SCIENCE / Earth Sciences
University of California Press



The Essential Writings of Vannevar Bush

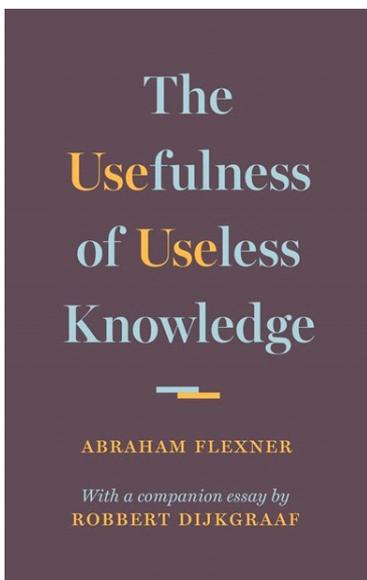
Science, Technology, and War in the Twentieth Century
G. Pascal Zachary, Vannevar Bush

The influence of Vannevar Bush on the history and institutions of twentieth-century American science and technology is staggeringly vast. As a leading figure in the creation of the National Science Foundation, the organizer of the Manhattan Project, and an adviser to Presidents Roosevelt and Truman during and after World War II, he played an indispensable role in the mobilization of scientific innovation for a changing world. A polymath, Bush was a cofounder of Raytheon, a pioneer of computing technology, and a visionary who foresaw the personal computer and might have coined the term “web.”

Edited by Bush's biographer, G. Pascal Zachary, this collection presents more than fifty of Bush's most important works across four decades. His subjects are as varied as his professional pursuits. Here are his thoughts on the management of innovation, the politics of science, research and national security, technology in public life, and the relationship of scientific advancement to human flourishing. It includes his landmark introduction to *Science, the Endless Frontier*, the blueprint for how government should support research and development, and much more. The works are as illuminating as they are prescient, from considerations of civil-military relations and the perils of the nuclear arms race to future encyclopedias and information overload, the Apollo program, and computing and consciousness. Together, these pieces reveal Bush as a major figure in the history of science, computerization, and technological development and a prophet of the information age.

9780231116435
\$30.00 | £25.00
Paperback
384 pages | 152.4mm : 228.6mm
2022

Science / Essays
Columbia University Press



The Usefulness of Useless Knowledge

Abraham Flexner, Robbert Dijkgraaf

A short, provocative book about why "useless" science often leads to humanity's greatest technological breakthroughs

A forty-year tightening of funding for scientific research has meant that resources are increasingly directed toward applied or practical outcomes, with the intent of creating products of immediate value. In such a scenario, it makes sense to focus on the most identifiable and urgent problems, right? Actually, it doesn't. In his classic essay "The Usefulness of Useless Knowledge," Abraham Flexner, the founding director of the Institute for Advanced Study in Princeton and the man who helped bring Albert Einstein to the United States, describes a great paradox of scientific research. The search for answers to deep questions, motivated solely by curiosity and without concern for applications, often leads not only to the greatest scientific discoveries but also to the most revolutionary technological breakthroughs. In short, no quantum mechanics, no computer chips.

This brief book includes Flexner's timeless 1939 essay alongside a new companion essay by Robbert Dijkgraaf, the Institute's current director, in which he shows that Flexner's defense of the value of "the unobstructed pursuit of useless knowledge" may be even more relevant today than it was in the early twentieth century. Dijkgraaf describes how basic research has led to major transformations in the past century and explains why it is an essential precondition of innovation and the first step in social and cultural change. He makes the case that society can achieve deeper understanding and practical progress today and tomorrow only by truly valuing and substantially funding the curiosity-driven "pursuit of useless knowledge" in both the sciences and the humanities.

9780691174761
\$9.95 | £7.99
Hardback
104 pages | 119mm : 183mm
2017

Science / Philosophy & Social Aspects
Princeton University Press



Birdpedia

A Brief Compendium of Avian Lore
Christopher W. Leahy, Abby McBride

A captivating A–Z treasury about birds and birding

Birdpedia is an engaging illustrated compendium of bird facts and birding lore. Featuring nearly 200 entries—on topics ranging from plumage and migration to birds in art, literature, and folklore—this enticing collection is brimming with wisdom and wit about all things avian.

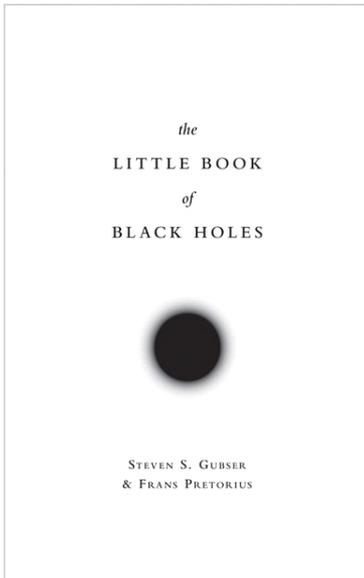
Christopher Leahy sheds light on "hawk-watching," "twitching," and other rituals from the sometimes mystifying world of birding that entail a good deal more than their names imply. He explains what kind of bird's nests you can eat, why mocking birds mock, and many other curiosities that have induced otherwise sane people to peer into treetops using outrageously expensive optical equipment. Leahy shares illuminating insights about pioneering ornithologists such as John James Audubon and Florence Bailey, and describes unique bird behaviors such as anting, caching, duetting, and mobbing. He discusses avian fossils, the colloquial naming of birds, the science and history of ornithology, and more. The book's convenient size makes it the perfect traveling companion to take along on your own avian adventures.

With charming illustrations by Abby McBride, *Birdpedia* is a marvelous mix of fact and fancy that is certain to delight seasoned birders and armchair naturalists alike.

- Features a real cloth cover with an elaborate foil-stamped design

9780691209661
\$16.95 | £9.99
Hardback
272 pages | 114.3mm : 171.45mm
2021

NATURE / Animals
Pedia Books
Princeton University Press



The Little Book of Black Holes

Steven S. Gubser, Frans Pretorius

Dive into a mind-bending exploration of the physics of black holes

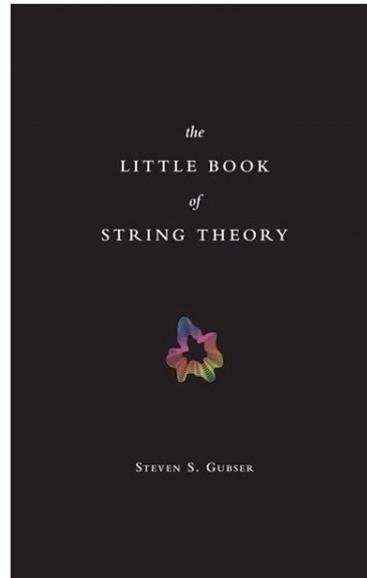
Black holes, predicted by Albert Einstein's general theory of relativity more than a century ago, have long intrigued scientists and the public with their bizarre and fantastical properties. Although Einstein understood that black holes were mathematical solutions to his equations, he never accepted their physical reality—a viewpoint many shared. This all changed in the 1960s and 1970s, when a deeper conceptual understanding of black holes developed just as new observations revealed the existence of quasars and X-ray binary star systems, whose mysterious properties could be explained by the presence of black holes. Black holes have since been the subject of intense research—and the physics governing how they behave and affect their surroundings is stranger and more mind-bending than any fiction.

After introducing the basics of the special and general theories of relativity, this book describes black holes both as astrophysical objects and theoretical “laboratories” in which physicists can test their understanding of gravitational, quantum, and thermal physics. From Schwarzschild black holes to rotating and colliding black holes, and from gravitational radiation to Hawking radiation and information loss, Steven Gubser and Frans Pretorius use creative thought experiments and analogies to explain their subject accessibly. They also describe the decades-long quest to observe the universe in gravitational waves, which recently resulted in the LIGO observatories' detection of the distinctive gravitational wave “chirp” of two colliding black holes—the first direct observation of black holes' existence.

The Little Book of Black Holes takes readers deep into the mysterious heart of the subject, offering rare clarity of insight into the physics that makes black holes simple yet destructive manifestations of geometric destiny.

9780691163727
\$19.95 | £14.99
Hardback
200 pages | 139.7mm : 215.9mm
2017

Science / Astrophysics & Space Science
Science Essentials
Princeton University Press



The Little Book of String Theory

Steven S. Gubser

The essential beginner's guide to string theory

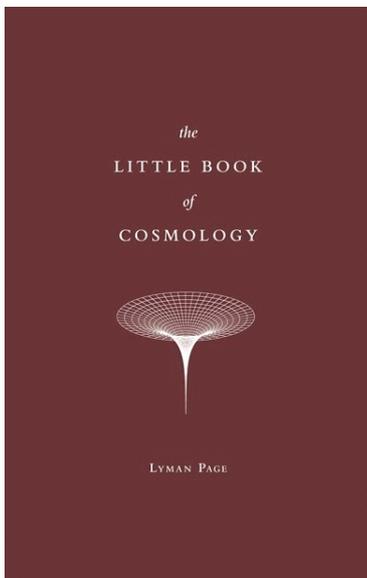
The Little Book of String Theory offers a short, accessible, and entertaining introduction to one of the most talked-about areas of physics today. String theory has been called the “theory of everything.” It seeks to describe all the fundamental forces of nature. It encompasses gravity and quantum mechanics in one unifying theory. But it is unproven and fraught with controversy. After reading this book, you'll be able to draw your own conclusions about string theory.

Steve Gubser begins by explaining Einstein's famous equation $E = mc^2$, quantum mechanics, and black holes. He then gives readers a crash course in string theory and the core ideas behind it. In plain English and with a minimum of mathematics, Gubser covers strings, branes, string dualities, extra dimensions, curved spacetime, quantum fluctuations, symmetry, and supersymmetry. He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand. How does Chopin's *Fantasia-Impromptu* relate to quantum mechanics? What would it be like to fall into a black hole? Why is dancing a waltz similar to contemplating a string duality? Find out in the pages of this book.

The Little Book of String Theory is the essential, most up-to-date beginner's guide to this elegant, multidimensional field of physics.

9780691142890
\$19.95 | £14.99
Hardback
184 pages | 139.7mm : 215.9mm
2010

Science / Physics
Science Essentials
Princeton University Press



The Little Book of Cosmology

Lyman Page

The cutting-edge science that is taking the measure of the universe

The Little Book of Cosmology provides a breathtaking look at our universe on the grandest scales imaginable. Written by one of the world's leading experimental cosmologists, this short but deeply insightful book describes what scientists are revealing through precise measurements of the faint thermal afterglow of the Big Bang—known as the cosmic microwave background, or CMB—and how their findings are transforming our view of the cosmos.

Blending the latest findings in cosmology with essential concepts from physics, Lyman Page first helps readers to grasp the sheer enormity of the universe, explaining how to understand the history of its formation and evolution in space and time. Then he sheds light on how spatial variations in the CMB formed, how they reveal the age, size, and geometry of the universe, and how they offer a blueprint for the formation of cosmic structure.

Not only does Page explain current observations and measurements, he describes how they can be woven together into a unified picture to form the Standard Model of Cosmology. Yet much remains unknown, and this incisive book also describes the search for ever deeper knowledge at the field's frontiers—from quests to understand the nature of neutrinos and dark energy to investigations into the physics of the very early universe.

9780691195780
\$19.95 | £14.99
Hardback
152 pages | 139.7mm : 215.9mm
2020

Science / Cosmology
Princeton University Press

on gravity

a brief tour of a
weighty subject

a. zee



On Gravity

A Brief Tour of a Weighty Subject

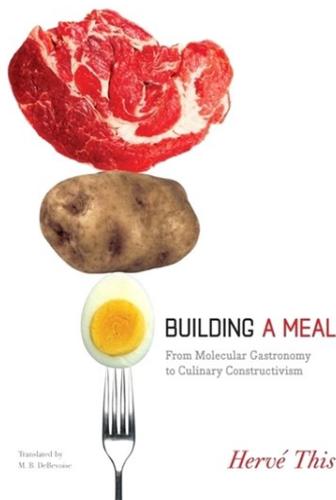
A. Zee

A pithy yet deep introduction to Einstein's general theory of relativity

Of the four fundamental forces of nature, gravity might be the least understood and yet the one with which we are most intimate. *On Gravity* combines depth with accessibility to take us on a compelling tour of Einstein's general theory of relativity. A. Zee begins with the discovery of gravity waves, then explains how gravity can be understood in comparison to other classical field theories, presents the idea of curved spacetime, and explores black holes and Hawking radiation. Zee travels as far as the theory reaches, leaving us with tantalizing hints of the unknown, from the intransigence of quantum gravity to the mysteries of dark matter. Infused with Zee's signature warmth and fresh style, *On Gravity* opens a unique pathway to comprehending relativity, gravity, spacetime, and the workings of the universe.

9780691202662
\$14.95 | £11.99
Paperback
192 pages | 139.7mm : 215.9mm
2020

Science / Gravity
Princeton University Press



Building a Meal

From Molecular Gastronomy to Culinary Constructivism

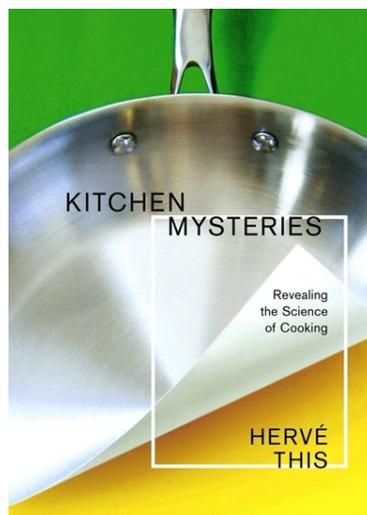
Hervé This, Malcolm DeBevoise

An internationally renowned chemist, popular television personality, and bestselling author, Hervé This heads the first laboratory devoted to molecular gastronomy—the scientific exploration of cooking and eating. By testing recipes that have guided cooks for centuries, and the various dictums and maxims on which they depend, Hervé This unites the head with the hand in order to defend and transform culinary practice.

With this new book, Hervé This's scientific project enters an exciting new phase. Considering the preparation of six bistro favorites—hard-boiled egg with mayonnaise, simple consommé, leg of lamb with green beans, steak with French fries, lemon meringue pie, and chocolate mousse—he isolates the exact chemical properties that tickle our senses and stimulate our appetites. More important, he connects the mind and the stomach, identifying methods of culinary construction that appeal to our memories, intelligence, and creativity. By showing that the creation of a meal is as satisfying as its consumption, Hervé This recalibrates the balance between food and our imaginations. The result is a revolutionary perspective that will tempt even the most casual cooks to greater flights of experimentation.

9780231144674
\$14.95 | £11.99
Paperback
152 pages | 152.4mm : 203.2mm
2011

Cooking / Courses & Dishes
Columbia University Press



Kitchen Mysteries

Revealing the Science of Cooking

Hervé This, Jody Gladding

An international celebrity and founder of molecular gastronomy, or the scientific investigation of culinary practice, Hervé This is known for his ground-breaking research into the chemistry and physics behind everyday cooking. His work is consulted widely by amateur cooks and professional chefs and has changed the way food is approached and prepared all over the world.

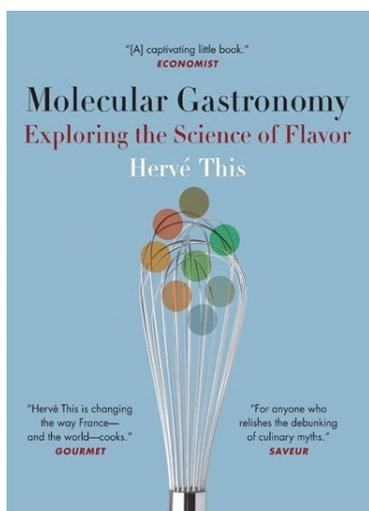
In *Kitchen Mysteries*, Hervé This offers a second helping of his world-renowned insight into the science of cooking, answering such fundamental questions as what causes vegetables to change color when cooked and how to keep a soufflé from falling. He illuminates abstract concepts with practical advice and concrete examples—for instance, how sautéing in butter chemically alters the molecules of mushrooms—so that cooks of every stripe can thoroughly comprehend the scientific principles of food.

Kitchen Mysteries begins with a brief overview of molecular gastronomy and the importance of understanding the physiology of taste. A successful meal depends as much on a cook's skilled orchestration of taste, odors, colors, consistencies, and other sensations as on the delicate balance of ingredients. Hervé then dives into the main course, discussing the science behind many meals' basic components: eggs, milk, bread, sugar, fruit, yogurt, alcohol, and cheese, among other items. He also unravels the mystery of tenderizing enzymes and gelatins and the preparation of soups and stews, salads and sauces, sorbet, cakes, and pastries. Hervé explores the effects of boiling, steaming, braising, roasting, deep-frying, sautéing, grilling, salting, and microwaving, and devotes a chapter to kitchen utensils, recommending the best way to refurbish silverware and use copper.

By sharing the empirical principles chefs have valued for generations, Hervé This adds another dimension to the suggestions of cookbook authors. He shows how to adapt recipes to available ingredients and how to modify proposed methods to the utensils at hand. His revelations make difficult recipes easier to attempt and allow for even more creativity and experimentation. Promising to answer your most compelling kitchen questions, Hervé This continues to make the complex science of food digestible to the cook.

9780231141710
\$16.95 | £12.99
Paperback
232 pages | 152.4mm : 203.2mm
2010

Cooking / Methods
Arts and Traditions of the Table: Perspectives on
Culinary History
Columbia University Press



Molecular Gastronomy

Exploring the Science of Flavor

Hervé This

Hervé This (pronounced "Teess") is an internationally renowned chemist, a popular French television personality, a bestselling cookbook author, a longtime collaborator with the famed French chef Pierre Gagnaire, and the only person to hold a doctorate in molecular gastronomy, a cutting-edge field he pioneered. Bringing the instruments and experimental techniques of the laboratory into the kitchen, This uses recent research in the chemistry, physics, and biology of food to challenge traditional ideas about cooking and eating. What he discovers will entertain, instruct, and intrigue cooks, gourmets, and scientists alike.

Molecular Gastronomy, This's first work to appear in English, is filled with practical tips, provocative suggestions, and penetrating insights. This begins by reexamining and debunking a variety of time-honored rules and dictums about cooking and presents new and improved ways of preparing a variety of dishes from quiches and quenelles to steak and hard-boiled eggs. He goes on to discuss the physiology of flavor and explores how the brain perceives tastes, how chewing affects food, and how the tongue reacts to various stimuli. Examining the molecular properties of bread, ham, foie gras, and champagne, the book analyzes what happens as they are baked, cured, cooked, and chilled.

Looking to the future, Hervé This imagines new cooking methods and proposes novel dishes. A chocolate mousse without eggs? A flourless chocolate cake baked in the microwave? *Molecular Gastronomy* explains how to make them. This also shows us how to cook perfect French fries, why a soufflé rises and falls, how long to cool champagne, when to season a steak, the right way to cook pasta, how the shape of a wine glass affects the taste of wine, why chocolate turns white, and how salt modifies tastes.

9780231133135
\$16.95 | £12.99
Paperback
392 pages | 152.4mm : 203.2mm
2008

Cooking / Methods
Arts and Traditions of the Table: Perspectives on
Culinary History
Columbia University Press



Note-by-Note Cooking

The Future of Food

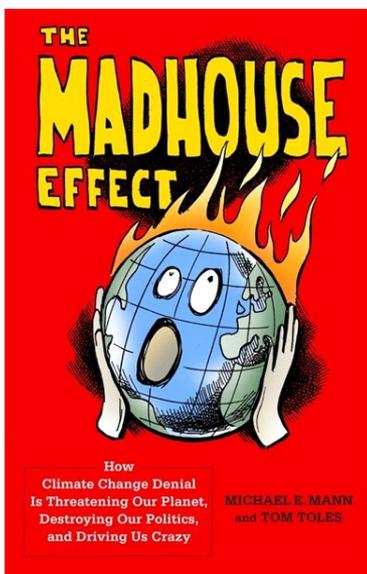
Hervé This, Malcolm DeBevoise

Note-by-Note Cooking is a landmark in the annals of gastronomy, liberating cooks from the constraints of traditional ingredients and methods through the use of pure molecular compounds. 1-Octen-3-ol, which has a scent of wild mushrooms; limonene, a colorless liquid hydrocarbon that has the smell of citrus; sotolon, whose fragrance at high concentrations resembles curry and at low concentrations, maple syrup or sugar; tyrosine, an odorless but flavorful amino acid present in cheese—these and many other substances, some occurring in nature, some synthesized in the laboratory, make it possible to create novel tastes and flavors in the same way that elementary sound waves can be combined to create new sounds.

Note-by-note cooking promises to add unadulterated nutritional value to dishes of all kinds, actually improving upon the health benefits of so-called natural foods. Cooking with molecular compounds will be far more energy efficient and environmentally sustainable than traditional techniques of cooking. This new way of thinking about food heralds a phase of culinary evolution on which the long-term survival of a growing human population depends. Hervé This clearly explains the properties of naturally occurring and synthesized compounds, dispels a host of misconceptions about the place of chemistry in cooking, and shows why note-by-note cooking is an obvious—and inevitable—extension of his earlier pioneering work in molecular gastronomy. An appendix contains a representative selection of recipes, vividly illustrated in color.

9780231164870
\$16.95 | £12.99
Paperback
272 pages | 152.4mm : 203.2mm
2017

Science / Chemistry
Arts and Traditions of the Table: Perspectives on
Culinary History
Columbia University Press



The Madhouse Effect

How Climate Change Denial Is Threatening Our Planet, Destroying Our Politics, and Driving Us Crazy

Michael E. Mann, Tom Toles

The award-winning climate scientist Michael E. Mann and the Pulitzer Prize-winning political cartoonist Tom Toles have been on the front lines of the fight against climate denialism for most of their careers. They have witnessed the manipulation of the media by business and political interests and the unconscionable play to partisanship on issues that affect the well-being of billions. The lessons they have learned have been invaluable, inspiring this brilliant, colorful escape hatch from the madhouse of the climate wars.

The Madhouse Effect portrays the intellectual pretzels into which denialists must twist logic to explain away the clear evidence that human activity has changed Earth's climate. Toles's cartoons collapse counter-scientific strategies into their biased components, helping readers see how to best strike at these fallacies. Mann's expert skills at science communication aim to restore sanity to a debate that continues to rage against widely acknowledged scientific consensus. The synergy of these two climate science crusaders enlivens the gloom and doom of so many climate-themed books—and may even convert die-hard doubters to the side of sound science.

9780231177870
\$18.95 | £14.99
Paperback
240 pages | 152.4mm : 228.6mm
2018

SCIENCE / Earth Sciences
Columbia University Press



Climate Change Science

A Primer for Sustainable Development

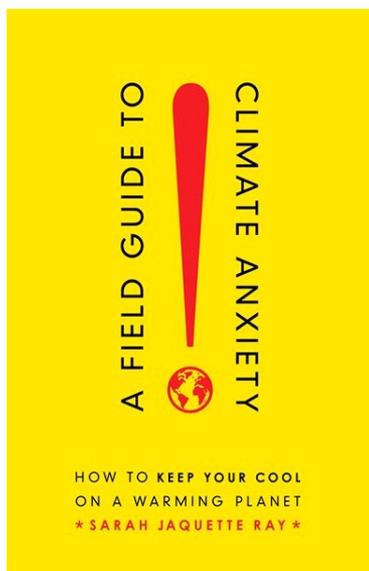
John C. Mutter

How will future climates be different from today's world—and what consequences will changes in climate have for societies and their development strategies? This book is a primer on the essential science for grasping the workings of climate change and climate prediction. It is accessible for readers with little to no background in science, with an emphasis on the needs of those studying sustainable development.

John C. Mutter gives a just-the-facts overview of how the climate system functions and what we know about why changes occur. He recounts the evolution of climatology from the earliest discoveries about Earth's climate to present-day predictive capabilities, and clearly presents the scientific basis of fundamental topics such as climate zones, ocean-atmosphere dynamics, and the long-term cycles from glacial to interglacial periods. Mutter also details the mechanisms of climate change and the ways in which human activity affects global climate. He explains the science behind some known consequences of rising temperatures, such as sea level rise, hurricane behavior, and climate variability. The primer discusses how climate predictions are made and examines the sources of uncertainty in forecasting. *Climate Change Science* is a straightforward and easy-to-read treatment of the fundamental science needed to comprehend one of today's most important issues.

9780231192231
\$20.00 | £14.99
Paperback
208 pages | 139.7mm : 215.9mm
2020

SCIENCE / Earth Sciences
Columbia University Earth Institute
Sustainability Primers
Columbia University Press



A Field Guide to Climate Anxiety

How to Keep Your Cool on a Warming Planet
Sarah Jaquette Ray

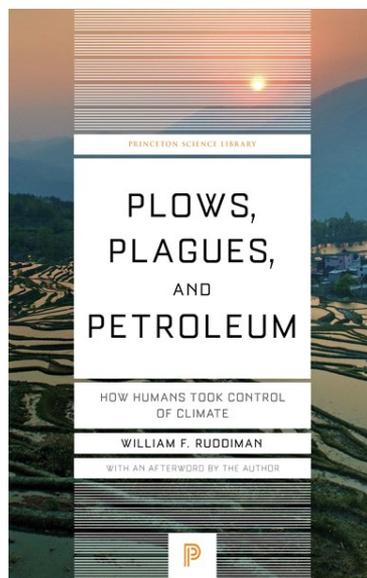
Gen Z's first "existential toolkit" for combating eco-guilt and burnout while advocating for climate justice.

A youth movement is reenergizing global environmental activism. The "climate generation"—late millennials and iGen, or Generation Z—is demanding that policy makers and government leaders take immediate action to address the dire outcomes predicted by climate science. Those inheriting our planet's environmental problems expect to encounter challenges, but they may not have the skills to grapple with the feelings of powerlessness and despair that may arise when they confront this seemingly intractable situation.

Drawing on a decade of experience leading and teaching in college environmental studies programs, Sarah Jaquette Ray has created an "existential tool kit" for the climate generation. Combining insights from psychology, sociology, social movements, mindfulness, and the environmental humanities, Ray explains why and how we need to let go of eco-guilt, resist burnout, and cultivate resilience while advocating for climate justice. *A Field Guide to Climate Anxiety* is the essential guidebook for the climate generation—and perhaps the rest of us—as we confront the greatest environmental threat of our time.

9780520343306
\$16.95 | £13.99
Paperback
216 pages | 5.5in : 8.25in
2020

SCIENCE / Earth Sciences
University of California Press



Plows, Plagues, and Petroleum

How Humans Took Control of Climate
William F. Ruddiman

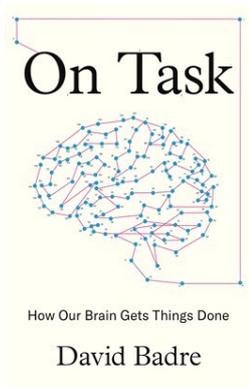
The impact on climate from 200 years of industrial development is an everyday fact of life, but did humankind's active involvement in climate change really begin with the industrial revolution, as commonly believed? *Plows, Plagues, and Petroleum* has sparked lively scientific debate since it was first published—arguing that humans have actually been changing the climate for some 8,000 years—as a result of the earlier discovery of agriculture.

The "Ruddiman Hypothesis" will spark intense debate. We learn that the impact of farming on greenhouse-gas levels, thousands of years before the industrial revolution, kept our planet notably warmer than if natural climate cycles had prevailed—quite possibly forestalling a new ice age.

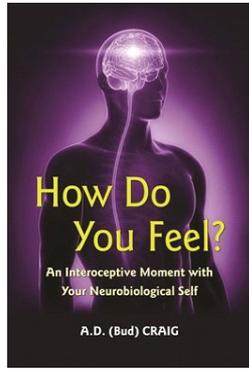
Plows, Plagues, and Petroleum is the first book to trace the full historical sweep of human interaction with Earth's climate. Ruddiman takes us through three broad stages of human history: when nature was in control; when humans began to take control, discovering agriculture and affecting climate through carbon dioxide and methane emissions; and, finally, the more recent human impact on climate change. Along the way he raises the fascinating possibility that plagues, by depleting human populations, also affected reforestation and thus climate—as suggested by dips in greenhouse gases when major pandemics have occurred. While our massive usage of fossil fuels has certainly contributed to modern climate change, Ruddiman shows that industrial growth is only part of the picture. The book concludes by looking to the future and critiquing the impact of special interest money on the global warming debate. In the afterword, Ruddiman explores the main challenges posed to his hypothesis, and shows how recent investigations and findings ultimately strengthen the book's original claims.

9780691173214
\$17.95 | £14.99
Paperback
240 pages | 139.7mm : 215.9mm
2016

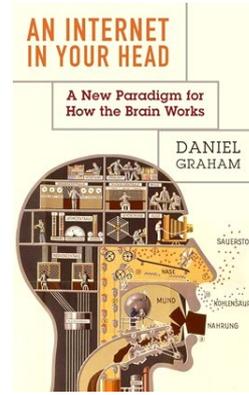
Science / Earth Sciences
Princeton Science Library
Princeton University Press



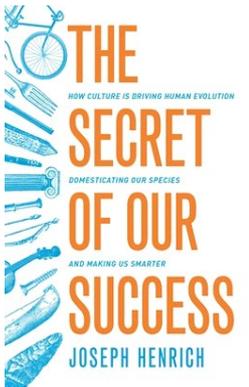
On Task
How Our Brain Gets Things Done
David Badre
9780691175553
\$29.95 | £25.00
Hardback | 2020
SCIENCE
Princeton University Press



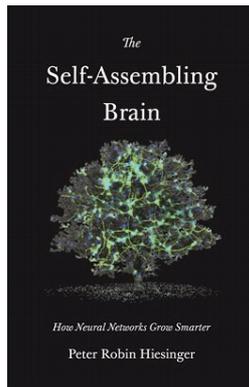
How Do You Feel?
An Interoceptive Moment with Your Neurobiological Self
A. D. Craig
9780691204086
\$29.95 | £25.00
Paperback | 2020
SCIENCE
Princeton University Press



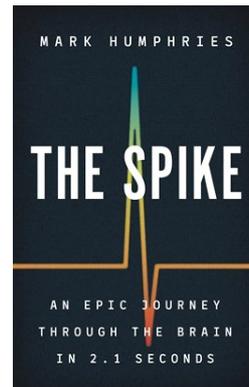
An Internet in Your Head
A New Paradigm for How the Brain Works
Daniel Graham
9780231196048
\$30.00 | £25.00
Hardback | 2021
SCIENCE
Columbia University Press



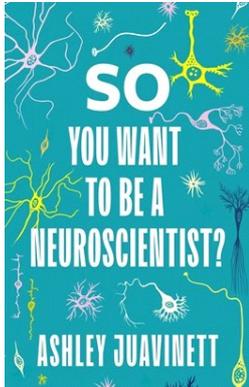
The Secret of Our Success
How Culture Is Driving Human Evolution, Domesticating Our Species, and Making Us Smarter
Joseph Henrich
9780691178431
\$19.95 | £14.99
Paperback | 2017
SCIENCE
Princeton University Press



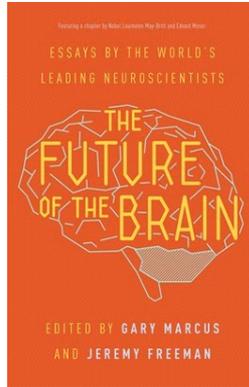
The Self-Assembling Brain
How Neural Networks Grow Smarter
Peter Robin Hiesinger
9780691181226
\$29.95 | £25.00
Hardback | 2021
SCIENCE
Princeton University Press



The Spike
An Epic Journey Through the Brain in 2.1 Seconds
Mark Humphries
9780691195889
\$24.95 | £20.00
Hardback | 2021
SCIENCE
Princeton University Press



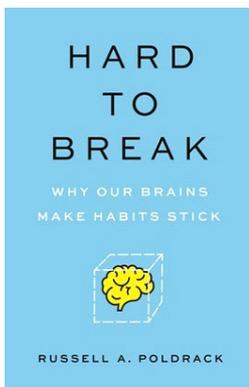
So You Want to Be a Neuroscientist
An Honest Account of Life as a Scientist
Ashley Juavinett
9780231190893
\$19.95 | £14.99
Paperback | 2020
SCIENCE
Columbia University Press



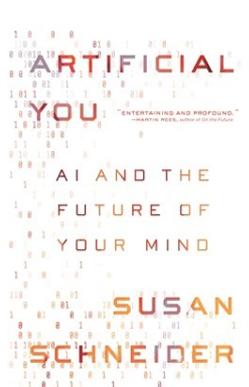
The Future of the Brain
Essays by the World's Leading Neuroscientists
Gary Marcus, Jeremy Freeman, May-Britt Moser, Edvard I. Moser
9780691173313
\$16.95 | £12.99
Paperback | 2016
SCIENCE
Princeton University Press



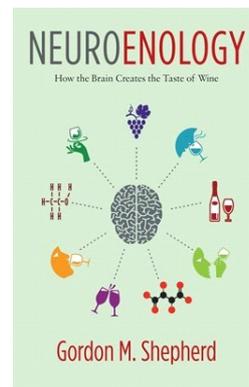
Innate
How the Wiring of Our Brains Shapes Who We Are
Kevin J. Mitchell
9780691204154
\$18.95 | £14.99
Paperback | 2020
SCIENCE
Princeton University Press



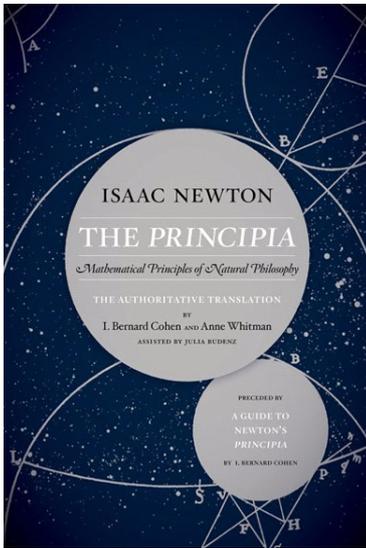
Hard to Break
Why Our Brains Make Habits Stick
Russell A. Poldrack
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\$24.95 | £20.00
Hardback | 2021
SCIENCE
Princeton University Press



Artificial You
AI and the Future of Your Mind
Susan Schneider
9780691216744
\$16.95 | £12.99
Paperback | 2021
SCIENCE
Princeton University Press



Neuroenology
How the Brain Creates the Taste of Wine
Gordon M. Shepherd
9780231177009
\$24.95 | £20.00
Hardback | 2016
SCIENCE
Columbia University Press



The Principia: The Authoritative Translation and Guide

Mathematical Principles of Natural Philosophy
Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz

In his monumental 1687 work, *Philosophiæ Naturalis Principia Mathematica*, known familiarly as the *Principia*, Isaac Newton laid out in mathematical terms the principles of time, force, and motion that have guided the development of modern physical science. Even after more than three centuries and the revolutions of Einsteinian relativity and quantum mechanics, Newtonian physics continues to account for many of the phenomena of the observed world, and Newtonian celestial dynamics is used to determine the orbits of our space vehicles.

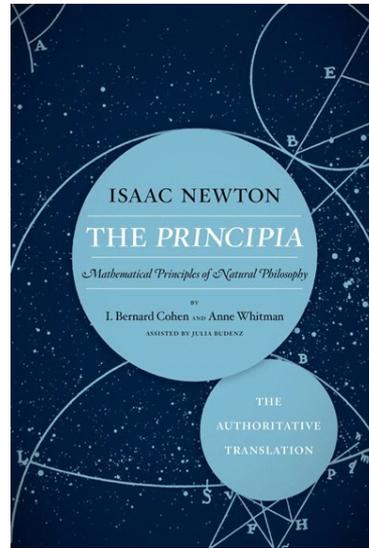
This authoritative, modern translation by I. Bernard Cohen and Anne Whitman, the first in more than 285 years, is based on the 1726 edition, the final revised version approved by Newton; it includes extracts from the earlier editions, corrects errors found in earlier versions, and replaces archaic English with contemporary prose and up-to-date mathematical forms.

Newton's principles describe acceleration, deceleration, and inertial movement; fluid dynamics; and the motions of the earth, moon, planets, and comets. A great work in itself, the *Principia* also revolutionized the methods of scientific investigation. It set forth the fundamental three laws of motion and the law of universal gravity, the physical principles that account for the Copernican system of the world as emended by Kepler, thus effectively ending controversy concerning the Copernican planetary system.

The illuminating Guide to Newton's *Principia* by I. Bernard Cohen makes this preeminent work truly accessible for today's scientists, scholars, and students.

9780520290884
\$34.95 | £27.00
Paperback
992 pages | 7in : 10in
2016

Science / Mathematical Physics
University of California Press



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Mathematical Principles of Natural Philosophy
Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz

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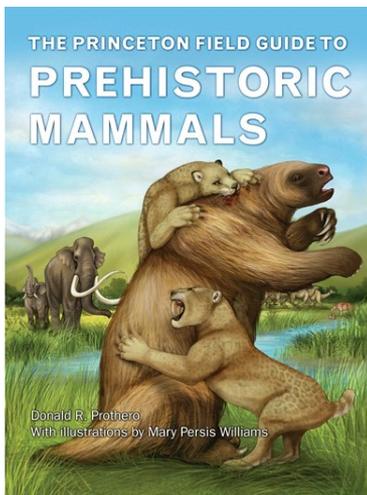
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The translation-only edition of this preeminent work is truly accessible for today's scientists, scholars, and students.

9780520290747
\$19.95 | £15.99
Paperback
616 pages | 7in : 10in
2016

Science / Mathematical Physics
University of California Press



The Princeton Field Guide to Prehistoric Mammals

Donald R. Prothero, Mary Persis Williams

The ultimate illustrated guide to the lost world of prehistoric mammals

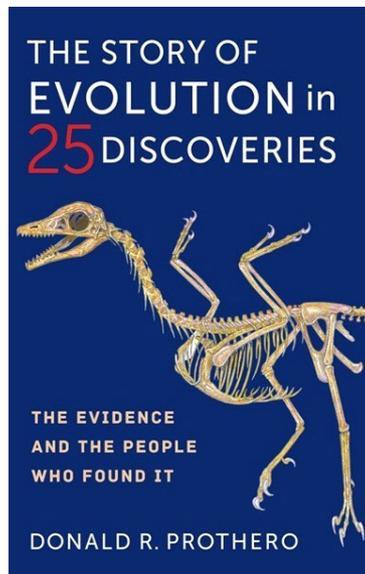
After the mass extinction of the dinosaurs 65 million years ago, mammals became the dominant terrestrial life form on our planet. Roaming the earth were spectacular beasts such as saber-toothed cats, giant mastodonts, immense ground sloths, and gigantic giraffe-like rhinoceroses. Here is the ultimate illustrated field guide to the lost world of these weird and wonderful prehistoric creatures.

A woolly mammoth probably won't come thundering through your vegetable garden any time soon. But if one did, this would be the book to keep on your windowsill next to the binoculars. It covers all the main groups of fossil mammals, discussing taxonomy and evolutionary history, and providing concise accounts of the better-known genera and species as well as an up-to-date family tree for each group. No other book presents such a wealth of new information about these animals—what they looked like, how they behaved, and how they were interrelated. In addition, this unique guide is stunningly illustrated throughout with full-color reconstructions of these beasts—many never before depicted—along with photographs of amazing fossils from around the world.

- Provides an up-to-date guidebook to hundreds of extinct species, from saber-toothed cats to giant mammoths
- Features a wealth of color illustrations, including new reconstructions of many animals never before depicted
- Demonstrates evolution in action—such as how whales evolved from hoofed mammals and how giraffes evolved from creatures with short necks
- Explains how mass extinctions and climate change affected mammals, including why some mammals grew so huge

9780691156828
\$35.00 | £28.00
Hardback
240 pages | 215.9mm : 279.4mm
2016

Nature / Dinosaurs & Prehistoric Creatures
Princeton Field Guides
Princeton University Press



The Story of Evolution in 25 Discoveries

The Evidence and the People Who Found It
Donald R. Prothero

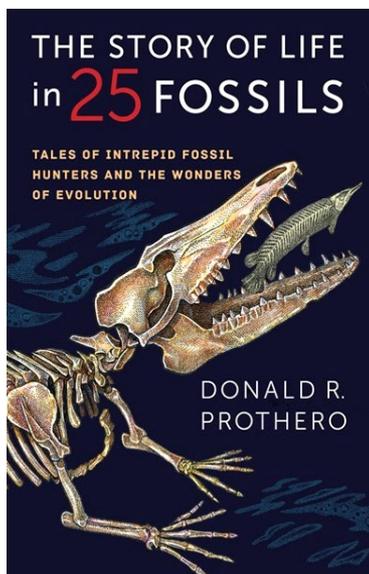
The theory of evolution unites the past, present, and future of living things. It puts humanity's place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing.

In *The Story of Evolution in 25 Discoveries*, Donald R. Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution. In twenty-five vignettes, he recounts the dramatic stories of the people who made crucial discoveries, placing each moment in the context of what it represented for the progress of science. He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution, following figures from Darwin to lesser-known researchers as they unlock the mysteries of the fossil record, the earth, and the universe. The book also features the stories of animal species strange and familiar, including humans—and our ties to some of our closest relatives and more distant cousins. Prothero's wide-ranging tales showcase awe-inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works.

Brisk and entertaining while firmly grounded in fundamental science, *The Story of Evolution in 25 Discoveries* is a captivating read for anyone curious about the evidence for evolution and what it means for humanity.

9780231190367
\$35.00 | £28.00
Hardback
376 pages | 152.4mm : 228.6mm
2020

Science / Life Sciences
Columbia University Press



The Story of Life in 25 Fossils

Tales of Intrepid Fossil Hunters and the Wonders of Evolution

Donald R. Prothero

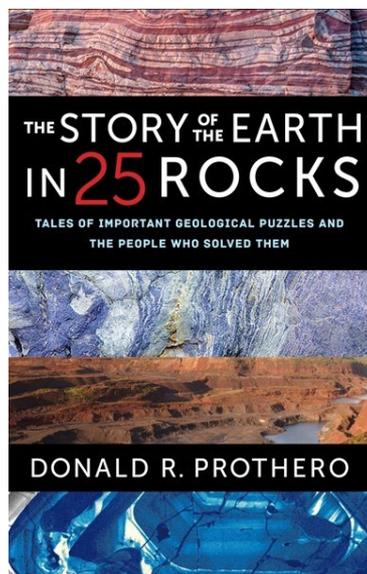
Every fossil tells a story. Best-selling paleontology author Donald R. Prothero describes twenty-five famous, beautifully preserved fossils in a gripping scientific history of life on Earth. Recounting the adventures behind the discovery of these objects and fully interpreting their significance within the larger fossil record, Prothero creates a riveting history of life on our planet.

The twenty-five fossils portrayed in this book catch animals in their evolutionary splendor as they transition from one kind of organism to another. We witness extinct plants and animals of microscopic and immense size and thrilling diversity. We learn about fantastic land and sea creatures that have no match in nature today. Along the way, we encounter such fascinating fossils as the earliest trilobite, *Olenellus*; the giant shark *Carcharocles*; the "fishibian" *Tiktaalik*; the "Frogamander" and the "Turtle on the Half-Shell"; enormous marine reptiles and the biggest dinosaurs known; the first bird, *Archaeopteryx*; the walking whale *Ambulocetus*; the gigantic hornless rhinoceros *Paraceratherium*, the largest land mammal that ever lived; and the *Australopithecus* nicknamed "Lucy," the oldest human skeleton. We meet the scientists and adventurers who pioneered paleontology and learn about the larger intellectual and social contexts in which their discoveries were made. Finally, we find out where to see these splendid fossils in the world's great museums.

Ideal for all who love prehistoric landscapes and delight in the history of science, this book makes a treasured addition to any bookshelf, stoking curiosity in the evolution of life on Earth.

9780231171915
\$27.00 | £20.00
Paperback
408 pages | 152.4mm : 228.6mm
2018

Science / Paleontology
Columbia University Press



The Story of the Earth in 25 Rocks

Tales of Important Geological Puzzles and the People Who Solved Them

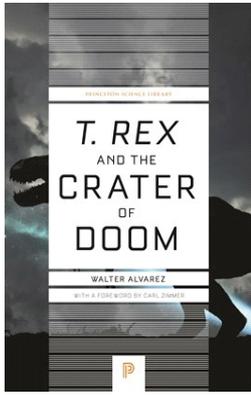
Donald R. Prothero

Every rock is a tangible trace of the earth's past. *The Story of the Earth in 25 Rocks* tells the fascinating stories behind the discoveries that shook the foundations of geology. In twenty-five chapters—each about a particular rock, outcrop, or geologic phenomenon—Donald R. Prothero recounts the scientific detective work that shaped our understanding of geology, from the unearthing of exemplary specimens to tectonic shifts in how we view the inner workings of our planet.

Prothero follows in the footsteps of the scientists who asked—and answered—geology's biggest questions: How do we know how old the earth is? What happened to the supercontinent Pangea? How did ocean rocks end up at the top of Mount Everest? What can we learn about our planet from meteorites and moon rocks? He answers these questions through expertly chosen case studies, such as Pliny the Younger's firsthand account of the eruption of Vesuvius; the granite outcrops that led a Scottish scientist to theorize that the landscapes he witnessed were far older than Noah's Flood; the salt and gypsum deposits under the Mediterranean Sea that indicate that it was once a desert; and how trying to date the age of meteorites revealed the dangers of lead poisoning. Each of these breakthroughs filled in a piece of the greater puzzle that is the earth, with scientific discoveries dovetailing with each other to offer an increasingly coherent image of the geologic past. Summarizing a wealth of information in an entertaining, approachable style, *The Story of the Earth in 25 Rocks* is essential reading for the armchair geologist, the rock hound, and all who are curious about the earth beneath their feet.

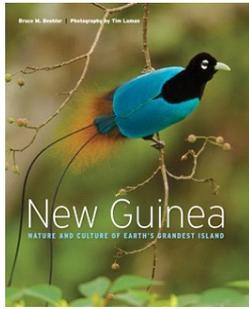
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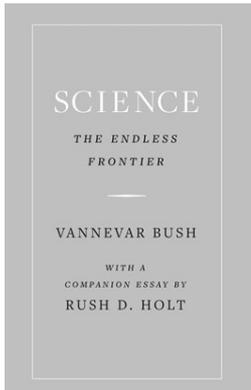
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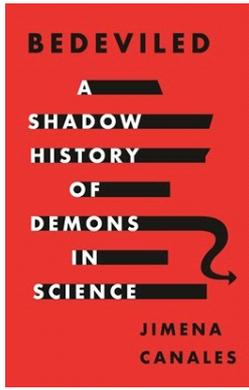
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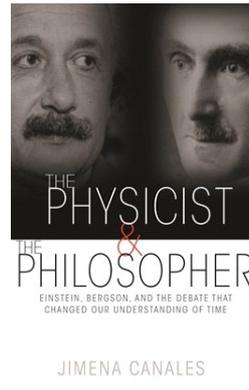
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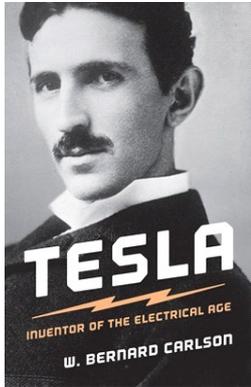
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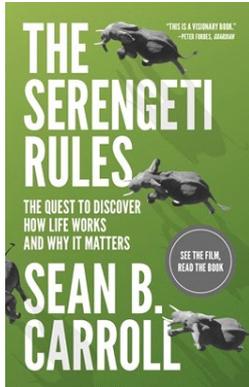
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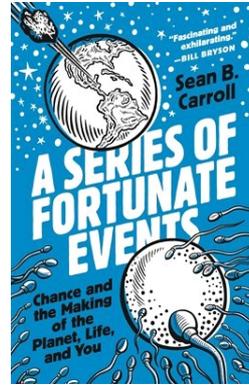
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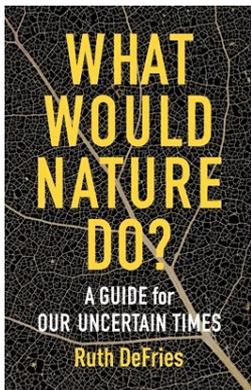
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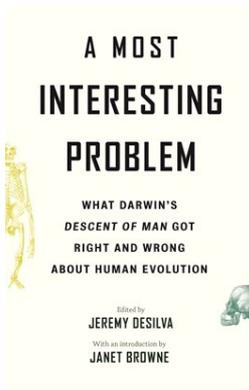
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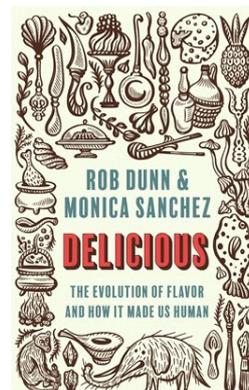
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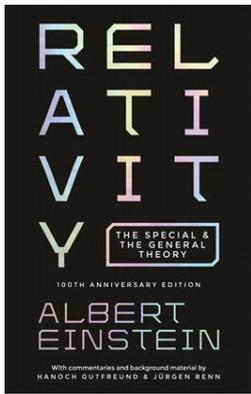
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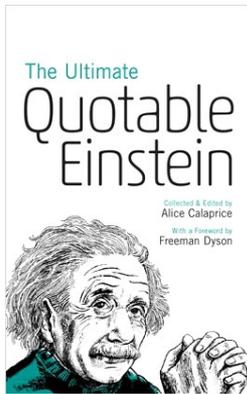
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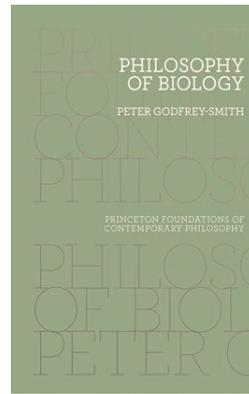
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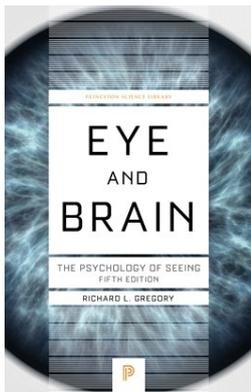
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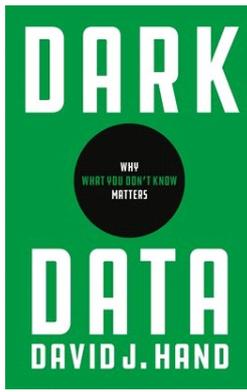
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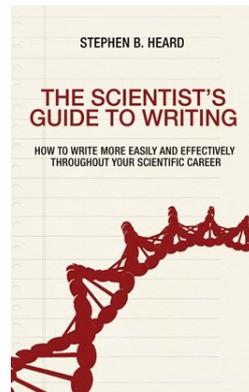
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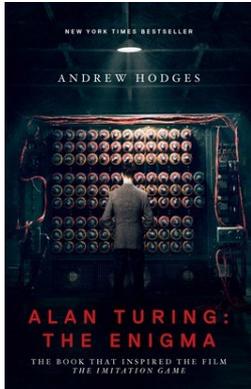
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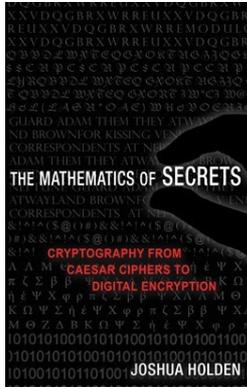
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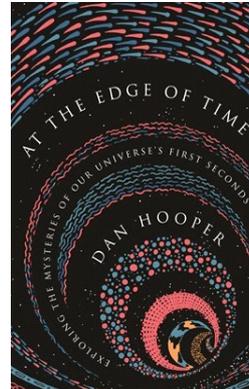
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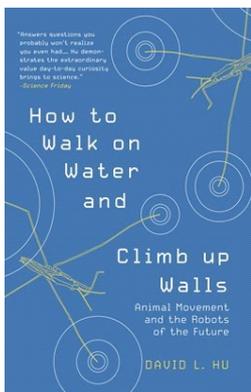
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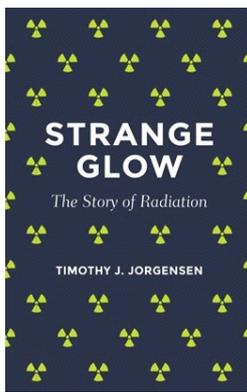
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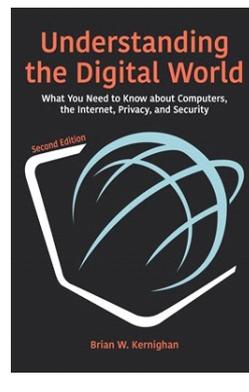
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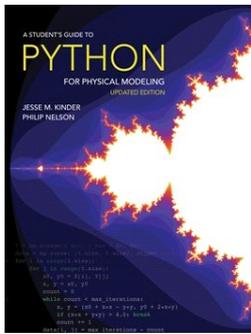
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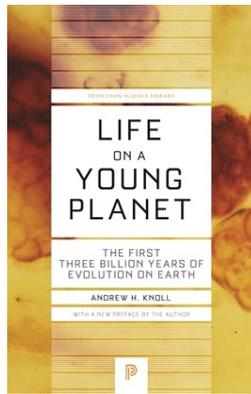
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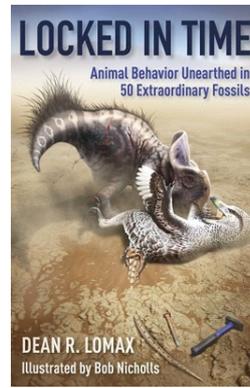
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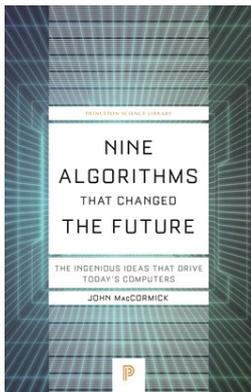


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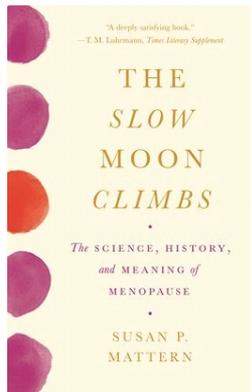
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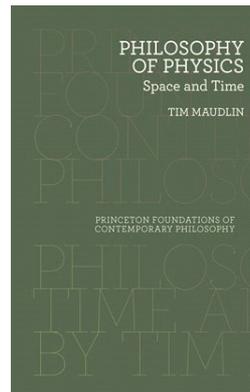
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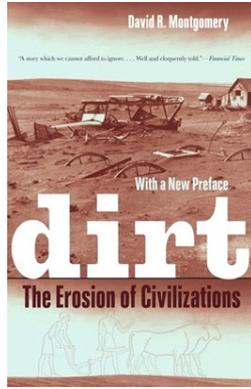
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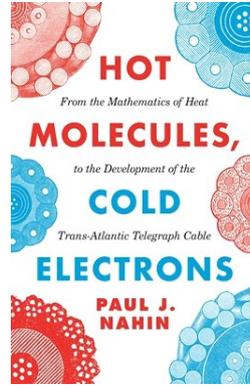
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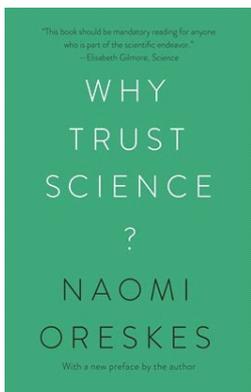
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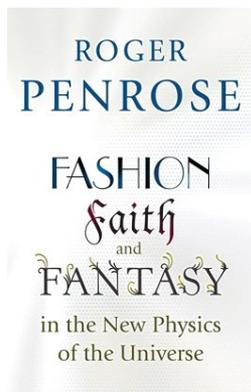
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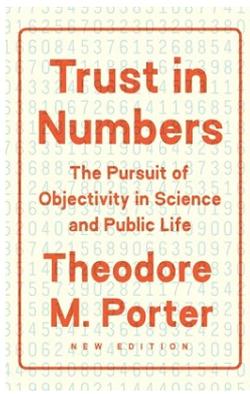
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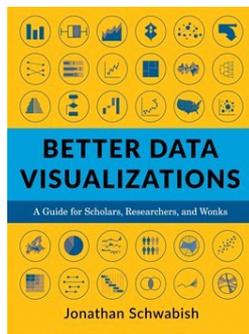
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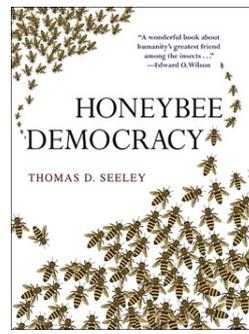
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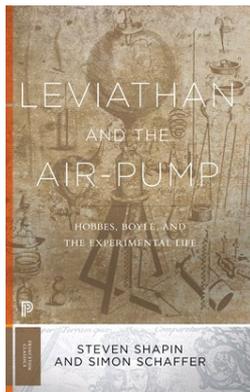
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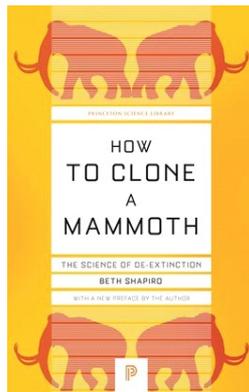
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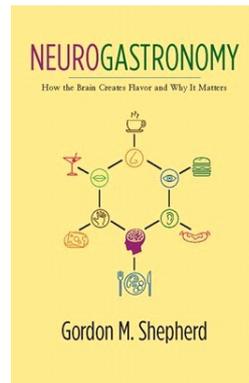
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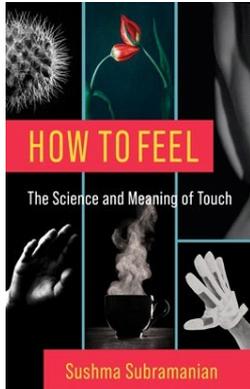
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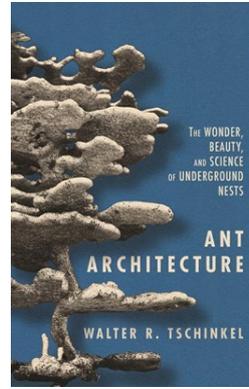
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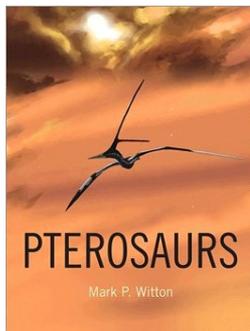
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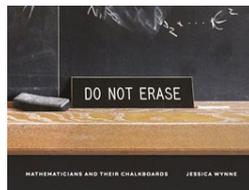
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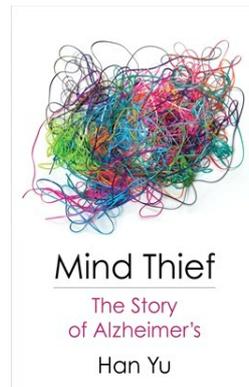
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Index

Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids ; Daniel Loxton	34, 34
Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought ; George Christopher Williams	37
Adventures among Ants: A Global Safari with a Cast of Trillions ; Mark W. Moffett	35
Adventures of a Mathematician ; S. M. Ulam	37
Against the Tide: The Battle for America's Beaches ; Cornelia Dean	31
Agid, Yves; Subconsciousness: Automatic Behavior and the Brain	11
Agrarian Dreams: The Paradox of Organic Farming in California ; Julie Guthman	32
Agrawal, Anurag; Monarchs and Milkweed: A Migrating Butterfly, a Poisonous Plant, and Their Remarkable Story of Coevolution	30
Alan Turing: The Enigma: The Book That Inspired the Film The Imitation Game - Updated Edition ; Andrew Hodges	27
Alan Turing's Systems of Logic: The Princeton Thesis	30, 30
Albert Einstein, Mileva Maric: The Love Letters ; Albert Einstein	32
Albert Einstein, The Human Side: Glimpses from His Archives ; Albert Einstein	32
Alien Oceans: The Search for Life in the Depths of Space ; Kevin Hand	9, 32
Al-Khalili, Jim; The World According to Physics	30
All about Birds: A Short Illustrated History of Ornithology ; Valérie Chansigaud	31
Alley, Richard B.; The Two-Mile Time Machine: Ice Cores, Abrupt Climate Change, and Our Future - Updated Edition	30
Altruistic Urge, The: Why We're Driven to Help Others ; Stephanie D. Preston	4
Alvarez, Walter; T. rex and the Crater of Doom	26
Ambron, Richard; The Brain and Pain: Breakthroughs in Neuroscience	13
American Bison: A Natural History ; Dale F. Lott	34
America's Largest Classroom: What We Learn from Our National Parks ; Jessica L. Thompson	37
Among African Apes: Stories and Photos from the Field	36
Ant Architecture: The Wonder, Beauty, and Science of Underground Nests ; Walter R. Tschinkel	29
Ant Encounters: Interaction Networks and Colony Behavior ; Deborah M. Gordon	32
Antón, Mauricio; The Big Cats and Their Fossil Relatives: An Illustrated Guide to Their Evolution and Natural History	30
Apocalypse: Earthquakes, Archaeology, and the Wrath of God ; Amos Nur	35
Archer, David; The Long Thaw: How Humans Are Changing the Next 100,000 Years of Earth's Climate	30
Archibald, J. David; Origins of Darwin's Evolution: Solving the Species Puzzle Through Time and Place	30
Artificial You: AI and the Future of Your Mind ; Susan Schneider	22, 36
At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds ; Dan Hooper	27, 33
Atlas of Climate Change, The: Mapping the World's Greatest Challenge ; Kirstin Dow	31
Axelrod, Daniel I.; A Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California	30
Axelrod, Daniel I.; The Eocene Thunder Mountain Flora of Central Idaho	30
Bad Advice: Or Why Celebrities, Politicians, and Activists Aren't Your Best Source of Health Information ; Paul A. Offit	35
Badre, David; On Task: How Our Brain Gets Things Done	22
Ballard, Robert D.; The Eternal Darkness: A Personal History of Deep-Sea Exploration	30
Baluja, Shumeet; The Silicon Jungle: A Novel of Deception, Power, and Internet Intrigue	30
Barnard, Edward; New York City Trees: A Field Guide for the Metropolitan Area	30
Bauer, Craig P.; Unsolved!: The History and Mystery of the World's Greatest Ciphers from Ancient Egypt to Online Secret Societies	30
Baumberg, Jeremy J.; The Secret Life of Science: How It Really Works and Why It Matters	30
Beach Book, The: Science of the Shore ; Carl Hobbs	33
Beasts of Eden: Walking Whales, Dawn Horses, and Other Enigmas of Mammal Evolution ; David Rains Wallace	37
Bedeveled: A Shadow History of Demons in Science ; Jimena Canales	26
Beehler, Bruce M.; New Guinea: Nature and Culture of Earth's Grandest Island	26
Beginner's Guide to Winning the Nobel Prize, The: Advice for Young Scientists ; Peter Doherty	31
Begun, David R.; The Real Planet of the Apes: A New Story of Human Origins	30
Bender, Michael L.; Paleoclimate	30
Benewick, Robert; The State of China Atlas: Mapping the World's Fastest-Growing Economy	30
Bennett, Jeffrey; Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future	30, 30
Berson, Josh; The Human Scaffold: How Not to Design Your Way Out of a Climate Crisis	30
Berta, Annalisa; Return to the Sea: The Life and Evolutionary Times of Marine Mammals	30
Better Data Visualizations: A Guide for Scholars, Researchers, and Wonks ; Jonathan Schwabish	29
Beyond Global Warming: How Numerical Models Revealed the Secrets of Climate Change ; Syukuro Manabe	34
Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future ; Jeffrey Bennett	30, 30
Big Cats and Their Fossil Relatives, The: An Illustrated Guide to Their Evolution and Natural History ; Mauricio Antón	30
Birdpedia: A Brief Compendium of Avian Lore ; Christopher W. Leahy	15
Bjornerud, Marcia; Timefulness: How Thinking Like a Geologist Can Help Save the World	26, 30
Blatchley, Barbara; What Are the Chances?: Why We Believe in Luck	6
Blind Spot, The: Science and the Crisis of Uncertainty ; William Byers	31
Bonduriansky, Russell; Extended Heredity: A New Understanding of Inheritance and Evolution	30, 30
Bonner, John Tyler; The Social Amoebae: The Biology of Cellular Slime Molds	30
Bonner, John Tyler; Why Size Matters: From Bacteria to Blue Whales	30
Boyd, Robert; A Different Kind of Animal: How Culture Transformed Our Species	30, 30
Bozeman, Barry; The Strength in Numbers: The New Science of Team Science	30
Brain and Pain, The: Breakthroughs in Neuroscience ; Richard Ambron	13
Brain in Context, The: A Pragmatic Guide to Neuroscience ; Jonathan D. Moreno	35

Brave New Arctic: The Untold Story of the Melting North; Mark C. Serreze.	36, 36
Braverman, Irus; Coral Whisperers: Scientists on the Brink	30
Bribiescas, Richard G.; How Men Age: What Evolution Reveals about Male Health and Mortality.	30, 30
Brinton, Christopher G.; The Power of Networks: Six Principles That Connect Our Lives.	30
Brown, John W.; Systematics of Anopina Obraztsov (Lepidoptera Tortricidae: Euliini).	30
Brown, John W.; Systematics of the Chrysoxena Group of Genera (Lepidoptera: Tortricidae: Euliini).	30
Browne, Janet; Charles Darwin: Voyaging.	30
Bub, Tanya; Totally Random: Why Nobody Understands Quantum Mechanics (A Serious Comic on Entanglement)	30
Building a Meal: From Molecular Gastronomy to Culinary Constructivism; Hervé This.	18, 37
Bush, Vannevar; Science, the Endless Frontier.	26
Bush, Vannevar; The Essential Writings of Vannevar Bush: Science, Technology, and War in the Twentieth Century.	14
Butler, Kiera; Raise: What 4-H Teaches Seven Million Kids and How Its Lessons Could Change Food and Farming Forever	30
Byers, William; The Blind Spot: Science and the Crisis of Uncertainty.	31
California Insects; Jerry A. Powell.	35
California Quail, The; A. Starker Leopold.	34
California Serpentes: Flora, Vegetation, Geology, Soils, and Management Problems; Arthur R. Kruckeberg.	34
Canales, Jimena; Bedeviled: A Shadow History of Demons in Science.	26
Canales, Jimena; The Physicist and the Philosopher: Einstein, Bergson, and the Debate That Changed Our Understanding of Time.	26
Canfield, Donald E.; Oxygen: A Four Billion Year History.	31
Canfield, Donald Eugene; Oxygen: A Four Billion Year History	31
Canguilhem, Georges; The Normal and the Pathological.	31
Carle, David; Introduction to Air in California.	31
Carle, David; Introduction to Water in California.	31
Carle, David; Traveling the 38th Parallel: A Water Line around the World.	31
Carlson, W. Bernard; Tesla: Inventor of the Electrical Age.	26
Carroll, Sean B.; A Series of Fortunate Events: Chance and the Making of the Planet, Life, and You.	26
Carroll, Sean B.; The Serengeti Rules: The Quest to Discover How Life Works and Why It Matters.	31
Carroll, Sean B.; The Serengeti Rules: The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author.	26
Cat Wars: The Devastating Consequences of a Cuddly Killer; Peter P. Marra.	34
Catania, Kenneth; Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved	11, 31
Caterino, Michael S.; The Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus: (Coleoptera: Histeridae)	31
Cave Bear Story, The: Life and Death of a Vanished Animal ; Björn Kurtén.	34
Cells to Civilizations: The Principles of Change That Shape Life; Enrico Coen.	31, 31
Chambers, John; From Dust to Life: The Origin and Evolution of Our Solar System.	31, 31
Changing Energy: The Transition to a Sustainable Future; John H. Perkins.	35
Chansigaud, Valérie; All about Birds: A Short Illustrated History of Ornithology.	31
Charles Darwin: Voyaging; Janet Browne.	30
Clark, Stuart; The Sun Kings: The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began.	31
Climate and Ecosystems; David Schimel.	36
Climate Change Science: A Primer for Sustainable Development; John C. Mutter.	20
Climate Stewardship: Taking Collective Action to Protect California; Adina Merenlender.	14
Coasts in Crisis: A Global Challenge; Gary Griggs.	32
Coen, Enrico; Cells to Civilizations: The Principles of Change That Shape Life.	31, 31
Cohen, Steven; The Sustainable City.	31
Colinvaux, Paul A.; Why Big Fierce Animals Are Rare: An Ecologist's Perspective.	31, 31
Collier, Michael; A Land in Motion: California's San Andreas Fault.	31
Coming Famine, The: The Global Food Crisis and What We Can Do to Avoid It; Julian Cribb.	31
Constant Fire, The: Beyond the Science vs. Religion Debate; Adam Frank.	32
Contemplative Science: Where Buddhism and Neuroscience Converge; B. Alan Wallace.	37, 37
Contera, Sonia; Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology.	9, 31
Coplan, Karl; Live Sustainably Now: A Low-Carbon Vision of the Good Life.	31
Coral Whisperers: Scientists on the Brink; Irus Braverman	30
Cordner, Alissa; Toxic Safety: Flame Retardants, Chemical Controversies, and Environmental Health.	31
Counter-Creationism Handbook, The; Mark Isaak.	33
Craig, A. D.; How Do You Feel?: An Interoceptive Moment with Your Neurobiological Self.	22
Creatures of Cain: The Hunt for Human Nature in Cold War America; Erika Lorraine Milam.	34, 35
Cribb, Julian; The Coming Famine: The Global Food Crisis and What We Can Do to Avoid It.	31
Custom-Made Brain, The: Cerebral Plasticity, Regeneration, and Enhancement; Jean-Didier Vincent.	37
Dark Data: Why What You Don't Know Matters; David J. Hand.	27
Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture; R. Ford Denison.	31
Darwin's Unfinished Symphony: How Culture Made the Human Mind; Kevin N. Laland.	34
Daston, Lorraine; Wonders and the Order of Nature 1150–1750	31
Data Love: The Seduction and Betrayal of Digital Technologies; Roberto Simanowski.	36
de Onís, Catalina M; Energy Islands: Metaphors of Power, Extractivism, and Justice in Puerto Rico.	31
de Waal, Frans; Primates and Philosophers: How Morality Evolved.	31
Dean, Cornelia; Against the Tide: The Battle for America's Beaches.	31
Deep Life: The Hunt for the Hidden Biology of Earth, Mars, and Beyond; Tullis Onstott.	35
Deffeyes, Kenneth S.; Hubbert's Peak: The Impending World Oil Shortage - New Edition.	31
DeFries, Ruth; What Would Nature Do?: A Guide for Our Uncertain Times.	26
Delicious: The Evolution of Flavor and How It Made Us Human; Rob Dunn.	26

Denison, R. Ford; Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture.	31
Dietz, Robert E., IV; Systematics and Biology of the Genus <i>Macrocne</i> Hübner (Lepidoptera: Ctenuchidae).	31
Different Kind of Animal, A: How Culture Transformed Our Species ; Robert Boyd.	30, 30
Dinar, Shlomi; International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries.	31
Dinopedia: A Brief Compendium of Dinosaur Lore ; Darren Naish.	7
Dinosaur Facts and Figures: The Theropods and Other Dinosauriformes ; Rubén Molina-Pérez.	35
Dirt: The Erosion of Civilizations ; David R. Montgomery	28
Disaster Deferred: A New View of Earthquake Hazards in the New Madrid Seismic Zone ; Seth Stein.	36, 36
Discoverers of the Universe: William and Caroline Herschel ; Michael Hoskin.	33
Discovery of the Germ, The: Twenty Years That Transformed the Way We Think About Disease ; John Waller	37
DNA: A Graphic Guide to the Molecule that Shook the World ; Israel Rosenfield.	36
Do Animals Think? ; Clive D. L. Wynne.	38
Do Not Erase: Mathematicians and Their Chalkboards ; Jessica Wynne.	29
Do Zombies Dream of Undead Sheep?: A Neuroscientific View of the Zombie Brain ; Timothy Verstynen.	37
Dog's World, A: Imagining the Lives of Dogs in a World without Humans ; Jessica Pierce.	3
Dogs: Their Fossil Relatives and Evolutionary History ; Xiaoming Wang.	37
Doherty, Peter; The Beginner's Guide to Winning the Nobel Prize: Advice for Young Scientists.	31
Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise ; InterAcademy Partnership	33
Douglas, Angela E.; Fundamentals of Microbiome Science: How Microbes Shape Animal Biology.	31
Douglas, Angela E.; The Symbiotic Habit.	31
Dow, Kirstin; The Atlas of Climate Change: Mapping the World's Greatest Challenge.	31
Dowling, John E.; The Great Brain Debate: Nature or Nurture?	31
Downie, Neil A.; The Ultimate Book of Saturday Science: The Very Best Backyard Science Experiments You Can Do Yourself	31
Dragonflies and Damselflies of California ; Timothy D. Manolis.	34
Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition ; Chris Impey.	33
Dunbar-Hester, Christina; Hacking Diversity: The Politics of Inclusion in Open Technology Cultures.	31
Dunn, Rob; Delicious: The Evolution of Flavor and How It Made Us Human.	26
Dunwell, Frances; Hudson River Highlands.	31
Eakin, Richard; Vertebrate Embryology: A Laboratory Manual	32
Ebert, David; Sharks, Rays, and Chimaeras of California.	32
Echo of the Big Bang ; Michael D. Lemonick.	34
Einstein in Bohemia ; Michael D. Gordin.	32
Einstein, Albert; Albert Einstein, Mileva Maric: The Love Letters	32
Einstein, Albert; Albert Einstein, The Human Side: Glimpses from His Archives.	32
Einstein, Albert; Relativity: The Special and the General Theory - 100th Anniversary Edition.	27
Einstein, Albert; The Travel Diaries of Albert Einstein: The Far East, Palestine, and Spain, 1922 - 1923.	32
Einstein, Albert; The Ultimate Quotable Einstein.	27
Einstein: A Hundred Years of Relativity ; Andrew Robinson	36
Eldredge, Niles; Eternal Ephemera: Adaptation and the Origin of Species from the Nineteenth Century Through Punctuated Equilibria and Beyond.	32
Energy Islands: Metaphors of Power, Extractivism, and Justice in Puerto Rico ; Catalina M de Onís.	31
Enhancing Evolution: The Ethical Case for Making Better People ; John Harris.	33
Eocene Thunder Mountain Flora of Central Idaho, The ; Daniel I. Axelrod.	30
Erwin, Douglas H.; Extinction: How Life on Earth Nearly Ended 250 Million Years Ago - Updated Edition.	32
Essence of Software, The: Why Concepts Matter for Great Design ; Daniel Jackson.	33
Essential Writings of Vannevar Bush, The: Science, Technology, and War in the Twentieth Century ; Vannevar Bush.	14
Estes, James A.; Serendipity: An Ecologist's Quest to Understand Nature.	32, 32
Estes, Richard D.; The Gnu's World: Serengeti Wildebeest Ecology and Life History.	32
Eternal Darkness, The: A Personal History of Deep-Sea Exploration ; Robert D. Ballard.	30
Eternal Ephemera: Adaptation and the Origin of Species from the Nineteenth Century Through Punctuated Equilibria and Beyond ; Niles Eldredge.	32
Evolution vs. Creationism: An Introduction ; Eugenie C. Scott.	36
Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (<i>Loxia curvirostra</i>) Complex ; Jeffrey G. Groth.	32
Evolutionary Dynamics of the Pocket Gopher <i>Thomomys bottae</i>, with Emphasis on California Populations, The ; James L. Patton.	35
Evolution's Bite: A Story of Teeth, Diet, and Human Origins ; Peter S. Ungar.	37, 37
Evolution's Rainbow: Diversity, Gender, and Sexuality in Nature and People ; Joan Roughgarden.	36
Explorers of Deep Time: Paleontologists and the History of Life ; Roy Plotnick.	5
Extended Heredity: A New Understanding of Inheritance and Evolution ; Russell Bonduriansky.	30, 30
Extinction: How Life on Earth Nearly Ended 250 Million Years Ago - Updated Edition ; Douglas H. Erwin.	32
Extravagant Universe, The: Exploding Stars, Dark Energy, and the Accelerating Cosmos ; Robert P. Kirshner.	34
Extreme Life of the Sea, The ; Stephen R. Palumbi.	35, 35
Eye and Brain: The Psychology of Seeing - Fifth Edition ; Richard L. Gregory.	27
Facing Climate Change: An Integrated Path to the Future ; Jeffrey T. Kiehl.	34
Fairbairn, Daphne J.; Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom.	32, 32
Falkowski, Paul G.; Life's Engines: How Microbes Made Earth Habitable.	32, 32
Fashion, Faith, and Fantasy in the New Physics of the Universe ; Roger Penrose.	28, 35
Feke, Jacqueline; Ptolemy's Philosophy: Mathematics as a Way of Life.	32
Feynman, Richard P.; The Quotable Feynman.	32

Field Guide to Birds of the Northern California Coast; Rich Stallcup	36
Field Guide to Butterflies of the San Francisco Bay and Sacramento Valley Regions; Arthur Shapiro.	36
Field Guide to California Agriculture; Paul Starrs.	36
Field Guide to Climate Anxiety, A: How to Keep Your Cool on a Warming Planet; Sarah Jaquette Ray.	21
Field Guide to Owls of California and the West; Hans J. Peeters.	35
Fish: An Enthusiast's Guide; Peter B. Moyle.	35
Fisher, Joshua D.; Managing Environmental Conflict: An Earth Institute Sustainability Primer.	13
Fitch, Walter; The Three Failures of Creationism: Logic, Rhetoric, and Science.	32
Fixing the Sky: The Checkered History of Weather and Climate Control; James Rodger Fleming.	32, 32
Flame and Fortune in the American West: Urban Development, Environmental Change, and the Great Oakland Hills Fire; Gregory L. Simon.	36
Fleissner, Erwin; Vital Harmonies: Molecular Biology and Our Shared Humanity.	32
Fleming, James; Fixing the Sky: The Checkered History of Weather and Climate Control.	32, 32
Fleming, Sean W.; Where the River Flows: Scientific Reflections on Earth's Waterways.	32, 32
Flexner, Abraham; The Usefulness of Useless Knowledge	15
Florapedia: A Brief Compendium of Floral Lore; Carol Gracie.	8
Fly by Night Physics: How Physicists Use the Backs of Envelopes; A. Zee.	38
Food's Frontier: The Next Green Revolution; Richard Manning.	34
Fortnow, Lance; The Golden Ticket: P, NP, and the Search for the Impossible.	32
Fradkin, Philip L.; Magnitude 8: Earthquakes and Life along the San Andreas Fault.	32
Frank, Adam; The Constant Fire: Beyond the Science vs. Religion Debate.	32
Frebel, Anna; Searching for the Oldest Stars: Ancient Relics from the Early Universe.	32
From Dust to Life: The Origin and Evolution of Our Solar System; John Chambers.	31, 31
From Genesis to Genetics: The Case of Evolution and Creationism; John A. Moore.	35
Frozen Earth: The Once and Future Story of Ice Ages; Doug Macdougall.	34
Fundamentals of Microbiome Science: How Microbes Shape Animal Biology; Angela E. Douglas.	31
Fungipedia: A Brief Compendium of Mushroom Lore; Lawrence Millman.	8
Future of the Brain, The: Essays by the World's Leading Neuroscientists.	22
Futuyma, Douglas J.; How Birds Evolve: What Science Reveals about Their Origin, Lives, and Diversity.	5
Genetic Lottery, The: Why DNA Matters for Social Equality; Kathryn Paige Harden.	3
Genial Gene, The: Deconstructing Darwinian Selfishness; Joan Roughgarden.	36
Geniez, Philippe; Snakes of Europe, North Africa and the Middle East: A Photographic Guide.	32
Geology of the Sierra Nevada; Mary Hill.	33
Gilliam, Harold; Weather of the San Francisco Bay Region	32
Global Climate Change and California: Potential Impacts and Responses.	34

Gnu's World, The: Serengeti Wildebeest Ecology and Life History; Richard D. Estes.	32
Godfrey-Smith, Peter; Philosophy of Biology.	27
Golden Ticket, The: P, NP, and the Search for the Impossible; Lance Fortnow.	32
Gordin, Michael D.; Einstein in Bohemia.	32
Gordon, Deborah M.; Ant Encounters: Interaction Networks and Colony Behavior.	32
Gould, James L.; Nature's Compass: The Mystery of Animal Navigation.	32
Gracie, Carol; Florapedia: A Brief Compendium of Floral Lore	8
Graham, Daniel; An Internet in Your Head: A New Paradigm for How the Brain Works.	22
Grand Canyon For Sale: Public Lands versus Private Interests in the Era of Climate Change; Stephen Nash.	35
Grant, Don; Super Polluters: Tackling the World's Largest Sites of Climate-Disrupting Emissions.	32
Graves, Joseph L.; Racism, Not Race: Answers to Frequently Asked Questions.	6
Gray, Margaret; Labor and the Locavore: The Making of a Comprehensive Food Ethic.	32
Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved; Kenneth Catania.	11, 31
Great Brain Debate, The: Nature or Nurture?; John E. Dowling.	31
Great Minds Don't Think Alike: Debates on Consciousness, Reality, Intelligence, Faith, Time, AI, Immortality, and the Human.	1
Greene, Harry W.; Tracks and Shadows: Field Biology as Art	32, 32
Gregory, Richard L.; Eye and Brain: The Psychology of Seeing - Fifth Edition.	27
Griggs, Gary; Coasts in Crisis: A Global Challenge.	32
Groth, Jeffrey G.; Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (Loxia curvirostra) Complex.	32
Gubser, Nicolas; Seasonal Carbon Cycling in the Sargasso Sea Near Bermuda.	32
Gubser, Steven S.; The Little Book of Black Holes.	16
Gubser, Steven S.; The Little Book of String Theory.	16
Guthman, Julie; Agrarian Dreams: The Paradox of Organic Farming in California.	32
Hacking Diversity: The Politics of Inclusion in Open Technology Cultures; Christina Dunbar-Hester.	31
Hand, David J.; Dark Data: Why What You Don't Know Matters	27
Hand, Kevin; Alien Oceans: The Search for Life in the Depths of Space.	9, 32
Hard to Break: Why Our Brains Make Habits Stick; Russell A. Poldrack.	22
Harden, Kathryn Paige; The Genetic Lottery: Why DNA Matters for Social Equality.	3
Harris, John; Enhancing Evolution: The Ethical Case for Making Better People.	33
Hartvigsen, Gregg; A Primer in Biological Data Analysis and Visualization Using R.	33, 33, 33
Harvell, Drew; A Sea of Glass: Searching for the Blaschkas' Fragile Legacy in an Ocean at Risk.	33, 33
Harvell, Drew; Ocean Outbreak: Confronting the Rising Tide of Marine Disease.	33, 33
Hawking, Stephen; The Nature of Space and Time.	33
Heard, Stephen B.; The Scientist's Guide to Writing: How to Write More Easily and Effectively throughout Your Scientific Career.	27

Heart of Darkness: Unraveling the Mysteries of the Invisible Universe; Jeremiah P. Ostriker.	35, 35
Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe; James B. Kaler	33
Helmreich, Stefan; Silicon Second Nature: Culturing Artificial Life in a Digital World, Updated With a New Preface.	33
Henrich, Joseph; The Secret of Our Success: How Culture Is Driving Human Evolution, Domesticating Our Species, and Making Us Smarter.	22
Hidden Dimensions: The Unification of Physics and Consciousness; B. Alan Wallace.	37
Hiesinger, Peter Robin; The Self-Assembling Brain: How Neural Networks Grow Smarter.	22
Higgins, Richard; Thoreau and the Language of Trees.	33
Hill, Mary; Geology of the Sierra Nevada.	33
History of Biology, A; Michel Morange.	35
Hobbs, Carl; The Beach Book: Science of the Shore.	33
Hodges, Andrew; Alan Turing: The Enigma: The Book That Inspired the Film The Imitation Game - Updated Edition.	27
Hoeppe, Götz; Why the Sky Is Blue: Discovering the Color of Life.	33
Holden, Joshua; The Mathematics of Secrets: Cryptography from Caesar Ciphers to Digital Encryption.	27
Honeybee Democracy; Thomas D. Seeley.	29
Hooper, Dan; At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds.	27, 33
Hoskin, Michael; Discoverers of the Universe: William and Caroline Herschel.	33
Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable; Paul J. Nahin.	28
Hough, Susan Elizabeth; Predicting the Unpredictable: The Tumultuous Science of Earthquake Prediction.	33
Hough, Susan Elizabeth; Richter's Scale: Measure of an Earthquake, Measure of a Man.	33, 33
How Birds Evolve: What Science Reveals about Their Origin, Lives, and Diversity; Douglas J. Futuyma.	5
How Do You Feel?: An Interoceptive Moment with Your Neurobiological Self; A. D. Craig.	22
How Men Age: What Evolution Reveals about Male Health and Mortality; Richard G. Bribiescas.	30, 30
How Old Is the Universe?; David A. Weintraub.	37
How to Clone a Mammoth: The Science of De-Extinction; Beth Shapiro.	29
How to Do Ecology: A Concise Handbook - Second Edition ; Richard Karban.	33
How to Feel: The Science and Meaning of Touch; Sushma Subramanian.	29
How to Find a Habitable Planet; James Kasting.	33
How to Succeed in Academics, 2nd edition; Linda L. McCabe.	34
How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future; David Hu.	27, 33
Hu, David; How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future.	27, 33
Hubbert's Peak: The Impending World Oil Shortage - New Edition; Kenneth S. Deffeyes.	31
Hudson River Highlands; Frances F. Dunwell.	31
Human Scaffold, The: How Not to Design Your Way Out of a Climate Crisis; Josh Berson.	30
Humphries, Mark; The Spike: An Epic Journey Through the Brain in 2.1 Seconds.	22
Impey, Chris; Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition	33

Impossible Engineering: Technology and Territoriality on the Canal du Midi; Chandra Mukerji.	35
Ingersoll, Andrew; Planetary Climates.	33
Innate: How the Wiring of Our Brains Shapes Who We Are; Kevin J. Mitchell.	22, 35
Insect Cookbook, The: Food for a Sustainable Planet; Arnold van Huis.	37, 37
InterAcademy Partnership; Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise.	33
International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries; Shlomi Dinar	31
Internet in Your Head, An: A New Paradigm for How the Brain Works; Daniel Graham.	22
Intoxicating Minds: How Drugs Work; Ciaran Regan.	36
Introduction to Air in California; David Carle.	31
Introduction to Horned Lizards of North America; Wade C. Sherbrooke.	36
Introduction to Water in California; David Carle.	31
Is Pluto a Planet?: A Historical Journey through the Solar System; David A. Weintraub.	37
Isaak, Mark; The Counter-Creationism Handbook.	33
It's About Time: Understanding Einstein's Relativity; N. David Mermin.	28
Jackson, Daniel; The Essence of Software: Why Concepts Matter for Great Design.	33
Johnston, Adrian; Self and Emotional Life: Philosophy, Psychoanalysis, and Neuroscience.	33, 33
Jones, Craig H.; The Mountains That Remade America: How Sierra Nevada Geology Impacts Modern Life.	33, 33
Jorgensen, Timothy J.; Strange Glow: The Story of Radiation	27
Journey of Man, The: A Genetic Odyssey; Spencer Wells	37
Jouzel, Jean; The White Planet: The Evolution and Future of Our Frozen World.	33, 33
Juavinett, Ashley; So You Want to Be a Neuroscientist?: An Honest Account of Life as a Scientist.	22
Kaler, James B.; Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe.	33
Kandel, Eric; There Is Life After the Nobel Prize.	2
Karban, Richard; How to Do Ecology: A Concise Handbook - Second Edition.	33
Kasting, James; How to Find a Habitable Planet.	33
Keller, Catherine; Political Theology of the Earth: Our Planetary Emergency and the Struggle for a New Public.	33
Keller, Evelyn Fox; Refiguring Life: Metaphors of Twentieth-Century Biology.	33
Kelly III, John; Smart Machines: IBM's Watson and the Era of Cognitive Computing.	33
Kennefick, Daniel; No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity.	33, 33
Kernighan, Brian W.; Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security.	33
Kernighan, Brian W.; Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security, Second Edition.	27
Kiehl, Jeffrey; Facing Climate Change: An Integrated Path to the Future.	34
Kinder, Jesse M.; A Student's Guide to Python for Physical Modeling: Updated Edition.	28
Kirshner, Robert P.; The Extravagant Universe: Exploding Stars, Dark Energy, and the Accelerating Cosmos.	34
Kitchen Mysteries: Revealing the Science of Cooking; Hervé This.	18, 37

Klotz, Leidy; Sustainability through Soccer: An Unexpected Approach to Saving Our World.	34
Knoll, Andrew H.; Life on a Young Planet: The First Three Billion Years of Evolution on Earth - Updated Edition.	28
Krimsky, Sheldon; Stem Cell Dialogues: A Philosophical and Scientific Inquiry Into Medical Frontiers.	34
Kruckeberg, Arthur R.; California Serpentes: Flora, Vegetation, Geology, Soils, and Management Problems.	34
Kurtén, Björn; The Cave Bear Story: Life and Death of a Vanished Animal.	34
Labor and the Locavore: The Making of a Comprehensive Food Ethic ; Margaret Gray.	32
Laland, Kevin N.; Darwin's Unfinished Symphony: How Culture Made the Human Mind.	34
Land in Motion, A: California's San Andreas Fault ; Michael Collier.	31
Land of Wondrous Cold: The Race to Discover Antarctica and Unlock the Secrets of Its Ice ; Gillen D'Arcy Wood	12, 37
Langville, Amy N.; Who's #1?: The Science of Rating and Ranking.	34, 34
Leahy, Christopher W.; Birdpedia: A Brief Compendium of Avian Lore.	15
Lemonick, Michael D.; Echo of the Big Bang.	34
Leopold, A. Starker; The California Quail.	34
Leviathan and the Air-Pump: Hobbes, Boyle, and the Experimental Life ; Steven Shapin.	29
Levine, Alexander; Living Matter: Seeking New Physics in the Biological World.	34
Lieberman, Philip; The Theory That Changed Everything: "On the Origin of Species" as a Work in Progress.	34
Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life ; Robert Rosen.	36
Life on a Young Planet: The First Three Billion Years of Evolution on Earth - Updated Edition ; Andrew H. Knoll.	28
Life on Mars: What to Know Before We Go ; David A. Weintraub.	37, 37
Life's Engines: How Microbes Made Earth Habitable ; Paul G. Falkowski.	32, 32
Little Book of Black Holes, The ; Steven S. Gubser.	16
Little Book of Cosmology, The ; Lyman Page.	17
Little Book of String Theory, The ; Steven S. Gubser.	16
Live Long and Evolve: What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds ; Mohamed A. F. Noor.	35, 35
Live Sustainably Now: A Low-Carbon Vision of the Good Life ; Karl Coplan.	31
Living Matter: Seeking New Physics in the Biological World ; Alexander Levine.	34
Locked in Time: Animal Behavior Unearthed in 50 Extraordinary Fossils ; Dean R. Lomax.	28
Lomax, Dean R.; Locked in Time: Animal Behavior Unearthed in 50 Extraordinary Fossils.	28
Long Thaw, The: How Humans Are Changing the Next 100,000 Years of Earth's Climate ; David Archer.	30
Long, Hoyt; The Values in Numbers: Reading Japanese Literature in a Global Information Age.	34
Lott, Dale F.; American Bison: A Natural History.	34
Loxton, Daniel; Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids.	34, 34
MacCormick, John; Nine Algorithms That Changed the Future: The Ingenious Ideas That Drive Today's Computers.	28
Maccougall, Doug; Frozen Earth: The Once and Future Story of Ice Ages.	34
Maccougall, Doug; Why Geology Matters: Decoding the Past, Anticipating the Future.	34

Macphail, Euan; The Neuroscience of Animal Intelligence: From the Seahare to the Seahorse.	34
Madhouse Effect, The: How Climate Change Denial Is Threatening Our Planet, Destroying Our Politics, and Driving Us Crazy ; Michael E. Mann.	20, 34
Magnitude 8: Earthquakes and Life along the San Andreas Fault ; Philip L. Fradkin.	32
Maloof, Joan; Treepedia: A Brief Compendium of Arboreal Lore	7
Mammalian Fauna of the Judith River Formation (Late Cretaceous, Judithian), Northcentral Montana ; Marisol Montellano.	35
Manabe, Syukuro; Beyond Global Warming: How Numerical Models Revealed the Secrets of Climate Change.	34
Managing Environmental Conflict: An Earth Institute Sustainability Primer ; Joshua D. Fisher.	13
Mann, Michael; The Madhouse Effect: How Climate Change Denial Is Threatening Our Planet, Destroying Our Politics, and Driving Us Crazy.	20, 34
Manning, Richard; Food's Frontier: The Next Green Revolution	34
Manolis, Timothy D.; Dragonflies and Damselflies of California	34
Margulis, Lynn; Microcosmos: Four Billion Years of Microbial Evolution.	34
Marks, Jonathan; What It Means to Be 98% Chimpanzee: Apes, People, and Their Genes.	34
Marra, Peter P.; Cat Wars: The Devastating Consequences of a Cuddly Killer.	34
Marshall, James A.r.; Social Evolution and Inclusive Fitness Theory: An Introduction.	34
Martin, Paul S; Twilight of the Mammoths: Ice Age Extinctions and the Rewilding of America.	34
Mathematics of Secrets, The: Cryptography from Caesar Ciphers to Digital Encryption ; Joshua Holden.	27
Mathletics: How Gamblers, Managers, and Fans Use Mathematics in Sports, Second Edition ; Wayne L. Winston	10
Mattern, Susan; The Slow Moon Climbs: The Science, History, and Meaning of Menopause.	28, 34
Maudlin, Tim; Philosophy of Physics: Space and Time.	28
McCabe, Linda L.; How to Succeed in Academics, 2nd edition	34
McCray, W. Patrick; The Visioneers: How a Group of Elite Scientists Pursued Space Colonies, Nanotechnologies, and a Limitless Future.	34, 34
McGinnis, Michael Vincent; Science and Sensibility: Negotiating an Ecology of Place.	34
Medea Hypothesis, The: Is Life on Earth Ultimately Self-Destructive? ; Peter Ward.	37
Meldahl, Keith Heyer; Rough-Hewn Land: A Geologic Journey from California to the Rocky Mountains.	34
Meldahl, Keith Heyer; Surf, Sand, and Stone: How Waves, Earthquakes, and Other Forces Shape the Southern California Coast.	34, 34
Merenlender, Adina; Climate Stewardship: Taking Collective Action to Protect California.	14
Mermin, N. David; It's About Time: Understanding Einstein's Relativity.	28
Microcosmos: Four Billion Years of Microbial Evolution ; Lynn Margulis.	34
Milam, Erika Lorraine; Creatures of Cain: The Hunt for Human Nature in Cold War America.	34, 35
Milky Way, The: An Insider's Guide ; William H. Waller.	37
Millman, Lawrence; Fungipedia: A Brief Compendium of Mushroom Lore.	8
Mind Thief: The Story of Alzheimer's ; Han Yu.	29

Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California, A; Daniel I. Axelrod.	30
Mitchell, Kevin J.; Innate: How the Wiring of Our Brains Shapes Who We Are.	22, 35
Moffett, Mark W.; Adventures among Ants: A Global Safari with a Cast of Trillions.	35
Molecular Gastronomy: Exploring the Science of Flavor; Hervé This.	19, 37
Molina-Pérez, Rubén; Dinosaur Facts and Figures: The Theropods and Other Dinosauriformes.	35
Monarchs and Milkweed: A Migrating Butterfly, a Poisonous Plant, and Their Remarkable Story of Coevolution; Anurag Agrawal.	30
Montellano, Marisol; Mammalian Fauna of the Judith River Formation (Late Cretaceous, Judithian), Northcentral Montana	35
Montgomery, David R.; Dirt: The Erosion of Civilizations.	28
Moore, John A.; From Genesis to Genetics: The Case of Evolution and Creationism.	35
Morange, Michel; A History of Biology.	35
Moreno, Jonathan D.; The Brain in Context: A Pragmatic Guide to Neuroscience.	35
Mortal Rituals: What the Story of the Andes Survivors Tells Us About Human Evolution; Matt J. Rossano.	36
Morton, Oliver; The Planet Remade: How Geoengineering Could Change the World.	35, 35
Most Interesting Problem, A: What Darwin's Descent of Man Got Right and Wrong about Human Evolution.	26
Mountains That Remade America, The: How Sierra Nevada Geology Impacts Modern Life; Craig H. Jones.	33, 33
Moyle, Peter B.; Fish: An Enthusiast's Guide.	35
Mukerji, Chandra; Impossible Engineering: Technology and Territoriality on the Canal du Midi.	35
Mulvaney, Dustin; Solar Power: Innovation, Sustainability, and Environmental Justice.	35
Munson, Carol J.; Postcranial Descriptions of <i>Ilaria</i> and <i>Ngapakaldia</i> (Vombatiformes, Marsupialia) and the Phylogeny of the Vombatiformes Based on Postcranial Morphology.	35
Mutter, John C.; Climate Change Science: A Primer for Sustainable Development.	20
Naeem, Shahid; Sustainable Food Production: An Earth Institute Sustainability Primer.	10
Nahin, Paul J.; Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable.	28
Naish, Darren; Dinopedia: A Brief Compendium of Dinosaur Lore.	7
Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology; Sonia Contera.	9, 31
Nash, Stephen; Grand Canyon For Sale: Public Lands versus Private Interests in the Era of Climate Change.	35
Natural History of Shells, A; Geerat J. Vermeij.	37
Nature of Space and Time, The; Stephen Hawking.	33
Nature's Compass: The Mystery of Animal Navigation; James L. Gould.	32
Near-Earth Objects: Finding Them Before They Find Us; Donald K. Yeomans.	38, 38
Neptune's Ark: From Ichthyosaurs to Orcas; David Rains Wallace.	37
Neuroenology: How the Brain Creates the Taste of Wine; Gordon M. Shepherd.	22
Neurogastronomy: How the Brain Creates Flavor and Why It Matters; Gordon M. Shepherd.	29, 36
Neuroscience of Animal Intelligence, The: From the Seahare to the Seahorse; Euan Macphail.	34
New Ecology, The: Rethinking a Science for the Anthropocene; Oswald J. Schmitz.	36
New Guinea: Nature and Culture of Earth's Grandest Island; Bruce M. Beehler.	26
New York City Trees: A Field Guide for the Metropolitan Area; Edward S. Barnard.	30
Newton, Isaac; The Principia: The Authoritative Translation and Guide: Mathematical Principles of Natural Philosophy.	23
Newton, Isaac; The Principia: The Authoritative Translation: Mathematical Principles of Natural Philosophy.	23
Nielsen, Michael; Reinventing Discovery: The New Era of Networked Science.	35, 35
Nine Algorithms That Changed the Future: The Ingenious Ideas That Drive Today's Computers; John MacCormick	28
No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity; Daniel Kennefick.	33, 33
Noor, Mohamed A. F.; Live Long and Evolve: What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds.	35, 35
Normal and the Pathological, The; Georges Canguilhem	31
Note-by-Note Cooking: The Future of Food; Hervé This	19, 37
Nur, Amos; Apocalypse: Earthquakes, Archaeology, and the Wrath of God.	35
Nutritionism: The Science and Politics of Dietary Advice; Gyorgy Scrinis.	36
Ocean Outbreak: Confronting the Rising Tide of Marine Disease; Drew Harvell.	33, 33
Oceans, The: A Deep History; Eelco J. Rohling.	36, 36
Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom; Daphne J. Fairbairn.	32, 32
Offit, Paul; Bad Advice: Or Why Celebrities, Politicians, and Activists Aren't Your Best Source of Health Information.	35
O'Hanlon, Michael E.; The Science of War: Defense Budgeting, Military Technology, Logistics, and Combat Outcomes.	35
On Gravity: A Brief Tour of a Weighty Subject; A. Zee	17, 38
On Task: How Our Brain Gets Things Done; David Badre	22
On the Future: Prospects for Humanity; Martin Rees	1, 36
Onstott, Tullis; Deep Life: The Hunt for the Hidden Biology of Earth, Mars, and Beyond.	35
Oreskes, Naomi; Why Trust Science?.	28, 35
Origin Then and Now, The: An Interpretive Guide to the Origin of Species; David N. Reznick.	36
Origins of Darwin's Evolution: Solving the Species Puzzle Through Time and Place; J. David Archibald.	30
Ostriker, Jeremiah P.; Heart of Darkness: Unraveling the Mysteries of the Invisible Universe.	35, 35
Our Cosmic Habitat: New Edition; Martin Rees.	36
Oxygen: A Four Billion Year History; Donald E. Canfield	31
Oxygen: A Four Billion Year History; Donald Eugene Canfield.	31
Page, Lyman; The Little Book of Cosmology.	17
Paleoclimate; Michael L. Bender.	30
Palumbi, Stephen R.; The Extreme Life of the Sea.	35, 35
Paradox of Preservation, The: Wilderness and Working Landscapes at Point Reyes National Seashore; Laura Alice Watt.	37
Parting of the Sea, The: How Volcanoes, Earthquakes, and Plagues Shaped the Story of Exodus; Barbara J. Sivertsen	36

Patton, James L.; The Evolutionary Dynamics of the Pocket Gopher <i>Thomomys bottae</i> , with Emphasis on California Populations.	35	Principia: The Authoritative Translation and Guide, The: Mathematical Principles of Natural Philosophy; Isaac Newton.	23
Peeters, Hans J.; Field Guide to Owls of California and the West.	35	Principia: The Authoritative Translation, The: Mathematical Principles of Natural Philosophy; Isaac Newton.	23
Penrose, Roger; Fashion, Faith, and Fantasy in the New Physics of the Universe.	28, 35	Prothero, Donald R.; The Princeton Field Guide to Prehistoric Mammals.	24
Perkins, John H.; Changing Energy: The Transition to a Sustainable Future.	35	Prothero, Donald R.; The Story of Evolution in 25 Discoveries: The Evidence and the People Who Found It.	24
Pesticide Conspiracy, The; Robert Van Den Bosch.	37	Prothero, Donald R.; The Story of Life in 25 Fossils: Tales of Intrepid Fossil Hunters and the Wonders of Evolution.	25
Petroski, Henry; Success through Failure: The Paradox of Design.	28	Prothero, Donald R.; The Story of the Dinosaurs in 25 Discoveries: Amazing Fossils and the People Who Found Them.	12
Philosophy of Biology; Peter Godfrey-Smith.	27	Prothero, Donald R.; The Story of the Earth in 25 Rocks: Tales of Important Geological Puzzles and the People Who Solved Them.	25
Philosophy of Physics: Space and Time; Tim Maudlin.	28	Pterosaurs: Natural History, Evolution, Anatomy; Mark P. Witton.	29
Physicist and the Philosopher, The: Einstein, Bergson, and the Debate That Changed Our Understanding of Time; Jimena Canales.	26	Ptolemy's Philosophy: Mathematics as a Way of Life; Jacqueline Feke.	32
Pickrell, John; Weird Dinosaurs: The Strange New Fossils Challenging Everything We Thought We Knew.	35	Quotable Darwin, The.	30
Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty through Graphical Display; Howard Wainer.	37	Quotable Feynman, The; Richard P. Feynman.	32
Pierce, Jessica; A Dog's World: Imagining the Lives of Dogs in a World without Humans.	3	Rabins, Peter; The Why of Things: Causality in Science, Medicine, and Life.	35, 35
Pilkey, Orrin H.; Useless Arithmetic: Why Environmental Scientists Can't Predict the Future.	35	Racism, Not Race: Answers to Frequently Asked Questions; Joseph L. Graves, Jr.	6
Place like No Other, A: Discovering the Secrets of Serengeti; Anthony R. E. Sinclair.	4	Raise: What 4-H Teaches Seven Million Kids and How Its Lessons Could Change Food and Farming Forever; Kiera Butler.	30
Planet Remade, The: How Geoengineering Could Change the World; Oliver Morton.	35, 35	Ray, Sarah Jaquette; A Field Guide to Climate Anxiety: How to Keep Your Cool on a Warming Planet.	21
Planetary Climates; Andrew Ingersoll.	33	Real Planet of the Apes, The: A New Story of Human Origins; David R. Begun.	30
Plastic Free: The Inspiring Story of a Global Environmental Movement and Why It Matters; Rebecca Prince-Ruiz.	35	Rees, Martin; On the Future: Prospects for Humanity.	1, 36
Plotnick, Roy; Explorers of Deep Time: Paleontologists and the History of Life.	5	Rees, Martin; Our Cosmic Habitat: New Edition.	36
Plows, Plagues, and Petroleum: How Humans Took Control of Climate; William F. Ruddiman.	21	Refiguring Life: Metaphors of Twentieth-Century Biology; Evelyn Fox Keller.	33
Poinar, George; What Bugged the Dinosaurs?: Insects, Disease, and Death in the Cretaceous.	35	Regan, Ciaran; Intoxicating Minds: How Drugs Work.	36
Poldrack, Russell A.; Hard to Break: Why Our Brains Make Habits Stick.	22	Reinventing Discovery: The New Era of Networked Science; Michael Nielsen.	35, 35
Political Theology of the Earth: Our Planetary Emergency and the Struggle for a New Public; Catherine Keller.	33	Relativity: The Special and the General Theory - 100th Anniversary Edition; Albert Einstein.	27
Porter, Theodore M.; The Rise of Statistical Thinking, 1820–1900.	35	Return to the Sea: The Life and Evolutionary Times of Marine Mammals; Annalisa Berta.	30
Porter, Theodore M.; Trust in Numbers: The Pursuit of Objectivity in Science and Public Life.	29	Reznick, David N.; The Origin Then and Now: An Interpretive Guide to the Origin of Species.	36
Postcranial Descriptions of <i>Ilaria</i> and <i>Ngapakaldia</i> (<i>Vombatiformes</i>, <i>Marsupialia</i>) and the Phylogeny of the <i>Vombatiformes</i> Based on Postcranial Morphology; Carol J. Munson.	35	Richter's Scale: Measure of an Earthquake, Measure of a Man; Susan Elizabeth Hough.	33, 33
Powell, Jerry A.; California Insects.	35	Rise of Statistical Thinking, 1820–1900, The; Theodore M. Porter.	35
Power of Networks, The: Six Principles That Connect Our Lives; Christopher G. Brinton.	30	Rivers in Time: The Search for Clues to Earth's Mass Extinctions; Peter D. Ward.	37
Practice of Reproducible Research, The: Case Studies and Lessons from the Data-Intensive Sciences.	34	Roberts, Siobhan; Wind Wizard: Alan G. Davenport and the Art of Wind Engineering.	36
Predicting the Unpredictable: The Tumultuous Science of Earthquake Prediction; Susan Elizabeth Hough.	33	Robinson, Andrew; Einstein: A Hundred Years of Relativity	36
Preston, Stephanie D.; The Altruistic Urge: Why We're Driven to Help Others.	4	Rohling, Eelco J.; The Oceans: A Deep History.	36, 36
Primates and Philosophers: How Morality Evolved; Frans de Waal.	31	Rosen, Robert; Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life.	36
Primer in Biological Data Analysis and Visualization Using R, A; Gregg Hartvigsen.	33, 33, 33	Rosenfield, Israel; DNA: A Graphic Guide to the Molecule that Shook the World.	36
Prince-Ruiz, Rebecca; Plastic Free: The Inspiring Story of a Global Environmental Movement and Why It Matters.	35	Rossano, Matt; Mortal Rituals: What the Story of the Andes Survivors Tells Us About Human Evolution.	36
Princeton Field Guide to Prehistoric Mammals, The; Donald R. Prothero.	24	Roughgarden, Joan; Evolution's Rainbow: Diversity, Gender, and Sexuality in Nature and People.	36
		Roughgarden, Joan; The Genial Gene: Deconstructing Darwinian Selfishness.	36

Rough-Hewn Land: A Geologic Journey from California to the Rocky Mountains; Keith Heyer Meldahl.	34
Rubenstein, Mary-Jane; Worlds Without End: The Many Lives of the Multiverse.	36, 36
Ruddiman, William F.; Plows, Plagues, and Petroleum: How Humans Took Control of Climate.	21
Ryan, Michael J.; A Taste for the Beautiful: The Evolution of Attraction.	36, 36
Saguin, Kristian Karlo; Urban Ecologies on the Edge: Making Manila's Resource Frontier.	36
Salmon, Wesley C.; Scientific Explanation and the Causal Structure of the World.	36
Schimel, David; Climate and Ecosystems.	36
Schmitz, Oswald J.; The New Ecology: Rethinking a Science for the Anthropocene.	36
Schneider, Susan; Artificial You: AI and the Future of Your Mind	22, 36
Schwabish, Jonathan; Better Data Visualizations: A Guide for Scholars, Researchers, and Wonks.	29
Science and Sensibility: Negotiating an Ecology of Place; Michael Vincent McGinnis.	34
Science of the Oven, The; Hervé This.	37, 37
Science of War, The: Defense Budgeting, Military Technology, Logistics, and Combat Outcomes; Michael E. O'Hanlon.	35
Science, the Endless Frontier; Vannevar Bush.	26
Scientific Explanation and the Causal Structure of the World; Wesley C. Salmon.	36
Scientist's Guide to Writing, The: How to Write More Easily and Effectively throughout Your Scientific Career; Stephen B. Heard.	27
Scott, Eugenie C.; Evolution vs. Creationism: An Introduction	36
Scrinis, Gyorgy; Nutritionism: The Science and Politics of Dietary Advice.	36
Sea of Glass, A: Searching for the Blaschkas' Fragile Legacy in an Ocean at Risk; Drew Harvell.	33, 33
Seabright, Paul; The War of the Sexes: How Conflict and Cooperation Have Shaped Men and Women from Prehistory to the Present.	36, 36
Searching for the Oldest Stars: Ancient Relics from the Early Universe; Anna Frebel.	32
Seasonal Carbon Cycling in the Sargasso Sea Near Bermuda; Nicolas Gruber.	32
Secret Life of Science, The: How It Really Works and Why It Matters; Jeremy J. Baumberg.	30
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Seeley, Thomas D.; Honeybee Democracy.	29
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Self-Assembling Brain, The: How Neural Networks Grow Smarter; Peter Robin Hiesinger.	22
Serendipity: An Ecologist's Quest to Understand Nature; James A. Estes.	32, 32
Serengeti Rules, The: The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author; Sean B. Carroll.	26
Serengeti Rules, The: The Quest to Discover How Life Works and Why It Matters; Sean B. Carroll.	31
Series of Fortunate Events, A: Chance and the Making of the Planet, Life, and You; Sean B. Carroll.	26
Serreze, Mark C.; Brave New Arctic: The Untold Story of the Melting North.	36, 36
Sexual Selections: What We Can and Can't Learn about Sex from Animals; Marlene Zuk.	38
Shapin, Steven; Leviathan and the Air-Pump: Hobbes, Boyle, and the Experimental Life.	29
Shapiro, Arthur; Field Guide to Butterflies of the San Francisco Bay and Sacramento Valley Regions.	36
Shapiro, Beth; How to Clone a Mammoth: The Science of De-Extinction.	29
Sharks, Rays, and Chimaeras of California; David Ebert	32
Shepherd, Gordon; Neuroenology: How the Brain Creates the Taste of Wine.	22
Shepherd, Gordon; Neurogastronomy: How the Brain Creates Flavor and Why It Matters.	29, 36
Sherbrooke, Wade C.; Introduction to Horned Lizards of North America.	36
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Simon, Gregory L.; Flame and Fortune in the American West: Urban Development, Environmental Change, and the Great Oakland Hills Fire.	36
Sinclair, Anthony R. E.; A Place like No Other: Discovering the Secrets of Serengeti.	4
Sivertsen, Barbara J.; The Parting of the Sea: How Volcanoes, Earthquakes, and Plagues Shaped the Story of Exodus.	36
Slow Moon Climbs, The: The Science, History, and Meaning of Menopause; Susan Mattern.	28, 34
Smart Machines: IBM's Watson and the Era of Cognitive Computing; John E. Kelly III.	33
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Spike, The: An Epic Journey Through the Brain in 2.1 Seconds; Mark Humphries.	22
Stallcup, Rich; Field Guide to Birds of the Northern California Coast.	36
Starrs, Paul; Field Guide to California Agriculture.	36
State of China Atlas, The: Mapping the World's Fastest-Growing Economy; Robert Benewick.	30
Stein, Seth; Disaster Deferred: A New View of Earthquake Hazards in the New Madrid Seismic Zone.	36, 36
Stem Cell Dialogues: A Philosophical and Scientific Inquiry Into Medical Frontiers; Sheldon Krimsky.	34
Story of Evolution in 25 Discoveries, The: The Evidence and the People Who Found It; Donald R. Prothero.	24
Story of Life in 25 Fossils, The: Tales of Intrepid Fossil Hunters and the Wonders of Evolution; Donald R. Prothero	25
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Surf, Sand, and Stone: How Waves, Earthquakes, and Other Forces Shape the Southern California Coast; Keith Heyer Meldahl.	34, 34
Sustainability through Soccer: An Unexpected Approach to Saving Our World; Leidy Klotz.	34
Sustainable City, The; Steven Cohen.	31
Sustainable Food Production: An Earth Institute Sustainability Primer; Shahid Naeem.	10
Symbiotic Habit, The; Angela E Douglas.	31
Systematic Review of the Ectemnius (Hymenoptera, A: Sphecidae) of Hawaii; Raina L. Takumi.	37
Systematics and Biology of the Genus Macrocneme Hübner (Lepidoptera: Ctenuchidae); Robert E., IV Dietz	31
Systematics of Anopina Obratzsov (Lepidoptera Tortricidae: Euliini); John W. Brown.	30
Systematics of the Chrysoxena Group of Genera (Lepidoptera: Tortricidae: Euliini); John W. Brown.	30
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Takumi, Raina L.; A Systematic Review of the Ectemnius (Hymenoptera: Sphecidae) of Hawaii.	37
Tambora: The Eruption That Changed the World; Gillen D'Arcy Wood.	38
Taste for the Beautiful, A: The Evolution of Attraction; Michael J. Ryan.	36, 36
Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus, The: (Coleoptera: Histeridae); Michael S. Caterino.	31
Tesla: Inventor of the Electrical Age; W. Bernard Carlson	26
Theory That Changed Everything, The: "On the Origin of Species" as a Work in Progress; Philip Lieberman.	34
There Is Life After the Nobel Prize; Eric Kandel.	2
Thewissen, J. G. M. Hans; The Walking Whales: From Land to Water in Eight Million Years.	37
Things Fall Together: A Guide to the New Materials Revolution; Skylar Tibbits.	29
This, Hervé; Building a Meal: From Molecular Gastronomy to Culinary Constructivism.	18, 37
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This, Hervé; Note-by-Note Cooking: The Future of Food	19, 37
This, Hervé; The Science of the Oven.	37, 37
Thompson, Jessica L.; America's Largest Classroom: What We Learn from Our National Parks.	37
Thoreau and the Language of Trees; Richard Higgins.	33
Three Failures of Creationism, The: Logic, Rhetoric, and Science; Walter Fitch.	32
Tibbits, Skylar; Things Fall Together: A Guide to the New Materials Revolution.	29
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Ulam, S. M.; Adventures of a Mathematician.	37
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Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security; Brian W. Kernighan.	33
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Universe Down to Earth; Neil de Grasse Tyson.	37
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Usefulness of Useless Knowledge, The; Abraham Flexner	15
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Van Den Bosch, Robert; The Pesticide Conspiracy.	37
van Huis, Arnold; The Insect Cookbook: Food for a Sustainable Planet.	37, 37
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Wainer, Howard; Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty through Graphical Display.	37
Walking Whales, The: From Land to Water in Eight Million Years ; J. G. M. Hans Thewissen.	37
Wallace, B. Alan; Contemplative Science: Where Buddhism and Neuroscience Converge.	37, 37
Wallace, B. Alan; Hidden Dimensions: The Unification of Physics and Consciousness.	37
Wallace, David Rains; Beasts of Eden: Walking Whales, Dawn Horses, and Other Enigmas of Mammal Evolution.	37
Wallace, David Rains; Neptune's Ark: From Ichthyosaurs to Orcas.	37
Waller, John; The Discovery of the Germ: Twenty Years That Transformed the Way We Think About Disease.	37
Waller, William H.; The Milky Way: An Insider's Guide.	37
Wang, Xiaoming; Dogs: Their Fossil Relatives and Evolutionary History.	37
War of the Sexes, The: How Conflict and Cooperation Have Shaped Men and Women from Prehistory to the Present ; Paul Seabright.	36, 36
Ward, Peter; Rivers in Time: The Search for Clues to Earth's Mass Extinctions.	37
Ward, Peter; The Medea Hypothesis: Is Life on Earth Ultimately Self-Destructive?.	37
Watt, Laura Alice; The Paradox of Preservation: Wilderness and Working Landscapes at Point Reyes National Seashore	37
Weather of the San Francisco Bay Region ; Harold Gilliam	32
Weintraub, David A.; How Old Is the Universe?.	37
Weintraub, David A.; Is Pluto a Planet?: A Historical Journey through the Solar System.	37
Weintraub, David A.; Life on Mars: What to Know Before We Go.	37, 37
Weird Dinosaurs: The Strange New Fossils Challenging Everything We Thought We Knew ; John Pickrell.	35
Wells, Spencer; The Journey of Man: A Genetic Odyssey.	37
What Are the Chances?: Why We Believe in Luck ; Barbara Blatchley.	6
What Bugged the Dinosaurs?: Insects, Disease, and Death in the Cretaceous ; George Poinar Jr.	35
What It Means to Be 98% Chimpanzee: Apes, People, and Their Genes ; Jonathan Marks.	34
What Would Nature Do?: A Guide for Our Uncertain Times ; Ruth DeFries.	26
When the Sahara Was Green: How Our Greatest Desert Came to Be ; Martin Williams.	2
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White Planet, The: The Evolution and Future of Our Frozen World ; Jean Jouzel.	33, 33
Who's #1?: The Science of Rating and Ranking ; Amy N. Langville.	34, 34
Why Big Fierce Animals Are Rare: An Ecologist's Perspective ; Paul A. Colinvaux.	31, 31
Why Geology Matters: Decoding the Past, Anticipating the Future ; Doug Macdougall.	34
Why of Things, The: Causality in Science, Medicine, and Life ; Peter V. Rabins.	35, 35
Why Size Matters: From Bacteria to Blue Whales ; John Tyler Bonner.	30
Why the Sky Is Blue: Discovering the Color of Life ; Götz Hoeppe.	33
Why Trust Science? ; Naomi Oreskes.	28, 35
Wignall, Paul B.; The Worst of Times: How Life on Earth Survived Eighty Million Years of Extinctions.	37, 37
Williams, George Christopher; Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought	37
Williams, Martin; When the Sahara Was Green: How Our Greatest Desert Came to Be.	2
Wind Wizard: Alan G. Davenport and the Art of Wind Engineering ; Siobhan Roberts.	36
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Wonders and the Order of Nature 1150–1750 ; Lorraine Daston.	31
Wood, Gillen D'Arcy; Land of Wondrous Cold: The Race to Discover Antarctica and Unlock the Secrets of Its Ice.	12, 37
Wood, Gillen D'Arcy; Tambora: The Eruption That Changed the World.	38
World According to Physics, The ; Jim Al-Khalili.	30
Worlds Without End: The Many Lives of the Multiverse ; Mary-Jane Rubenstein.	36, 36
Worst of Times, The: How Life on Earth Survived Eighty Million Years of Extinctions ; Paul B. Wignall.	37, 37
Wynne, Clive D. L.; Do Animals Think?.	38
Wynne, Jessica; Do Not Erase: Mathematicians and Their Chalkboards.	29
Yeomans, Donald K.; Near-Earth Objects: Finding Them Before They Find Us.	38, 38
Yu, Han; Mind Thief: The Story of Alzheimer's.	29
Zee, A.; Fly by Night Physics: How Physicists Use the Backs of Envelopes.	38
Zee, A.; On Gravity: A Brief Tour of a Weighty Subject.	17, 38
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