

## Unique The New Science Of Human Individuality

Thinking, Fast and Slow  
Human  
The Emotional Life of Your Brain  
Women in Science  
The Science of Learning  
Phyllostomid Bats  
Spalted Wood  
Fishery Science  
The Compass of Pleasure  
Atlas Obscura  
Lessons from the Clean Air Act  
Welcome to Your Brain  
Transcend  
Help Your Kids with Language Arts  
Electric Brain  
The Language Instinct  
Apollo's Arrow  
Think Tank  
Leadership and the New Science  
Dog Is Love  
Future Crimes  
Dog Sense  
The Photo Ark  
The Scientist as Rebel  
Animals by Design  
The New Science of Metagenomics  
How to Change Your Mind  
A World Beyond Physics  
A New Kind of Science  
Never Enough  
Seven and a Half  
Lessons about the Brain  
Help Your Kids with Science  
Touch  
The Accidental Mind  
What If?  
The Power of Music  
Tree Story  
Attached  
American Spy  
Unique

### Thinking, Fast and Slow

It's a scientific fact: Women rock! A charmingly illustrated and educational book, New York Times best seller *Women in Science* highlights the contributions of fifty notable women to the fields of science, technology, engineering, and mathematics (STEM) from the ancient to the modern world. Full of striking, singular art, this fascinating collection also contains infographics about relevant topics such as lab equipment, rates of women currently working in STEM fields, and an illustrated

scientific glossary. The trailblazing women profiled include well-known figures like primatologist Jane Goodall, as well as lesser-known pioneers such as Katherine Johnson, the African-American physicist and mathematician who calculated the trajectory of the 1969 Apollo 11 mission to the moon. *Women in Science* celebrates the achievements of the intrepid women who have paved the way for the next generation of female engineers, biologists, mathematicians, doctors, astronauts, physicists, and more! — BrainPickings - Best Science Books of the Year

### **Human**

Does drinking really kill brain cells? Does listening to Mozart make your baby smarter? For all the mileage we've gotten from our own brains, most of us have essentially no idea how they work. We're easily susceptible to myths (like the "fact" that we use only 10% of our brains) and misconceptions (like the ones perpetrated by most Hollywood movies), probably because we've never known where to turn for the truth. But neurologists Sandra Aamodt and Sam Wang are glad to help. In this funny, accessible book, we get a guided tour of our own minds, what they're made of, how they work, and how they can go wrong. Along the way, we get a host of diagrams, quizzes, and "cocktail party tips" that shed light on the questions we nag each other about. (Can a head injury make you forget your own name? Are dolphins smarter than chimpanzees?) Fun and surprisingly engrossing, *Welcome to Your Brain* shows you how your brain works, and how you can make it

work better.

### **The Emotional Life of Your Brain**

From Galileo to today's amateur astronomers, scientists have been rebels, writes Freeman Dyson. Like artists and poets, they are free spirits who resist the restrictions their cultures impose on them. In their pursuit of nature's truths, they are guided as much by imagination as by reason, and their greatest theories have the uniqueness and beauty of great works of art. Dyson argues that the best way to understand science is by understanding those who practice it. He tells stories of scientists at work, ranging from Isaac Newton's absorption in physics, alchemy, theology, and politics, to Ernest Rutherford's discovery of the structure of the atom, to Albert Einstein's stubborn hostility to the idea of black holes. His descriptions of brilliant physicists like Edward Teller and Richard Feynman are enlivened by his own reminiscences of them. He looks with a skeptical eye at fashionable scientific fads and fantasies, and speculates on the future of climate prediction, genetic engineering, the colonization of space, and the possibility that paranormal phenomena may exist yet not be scientifically verifiable. Dyson also looks beyond particular scientific questions to reflect on broader philosophical issues, such as the limits of reductionism, the morality of strategic bombing and nuclear weapons, the preservation of the environment, and the relationship between science and religion. These essays, by a distinguished physicist who is

also a prolific writer, offer informed insights into the history of science and fresh perspectives on contentious current debates about science, ethics, and faith.

### **Women in Science**

“American Spy updates the espionage thriller with blazing originality.”—Entertainment Weekly “There has never been anything like it.”—Marlon James, GQ “So much fun . . . Like the best of John le Carré, it’s extremely tough to put down.”—NPR NAMED ONE OF THE TEN BEST BOOKS OF THE YEAR BY CHICAGO TRIBUNE AND ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Time • NPR • Entertainment Weekly • Esquire • BuzzFeed • Vulture • Real Simple • Good Housekeeping • The New York Public Library What if your sense of duty required you to betray the man you love? It’s 1986, the heart of the Cold War, and Marie Mitchell is an intelligence officer with the FBI. She’s brilliant, but she’s also a young black woman working in an old boys’ club. Her career has stalled out, she’s overlooked for every high-profile squad, and her days are filled with monotonous paperwork. So when she’s given the opportunity to join a shadowy task force aimed at undermining Thomas Sankara, the charismatic revolutionary president of Burkina Faso whose Communist ideology has made him a target for American intervention, she says yes. Yes, even though she secretly admires the work Sankara is doing for his country. Yes, even though she is still grieving the mysterious death of her sister, whose example led Marie to

## Free Reading Unique The New Science Of Human Individuality

this career path in the first place. Yes, even though a furious part of her suspects she's being offered the job because of her appearance and not her talent. In the year that follows, Marie will observe Sankara, seduce him, and ultimately have a hand in the coup that will bring him down. But doing so will change everything she believes about what it means to be a spy, a lover, a sister, and a good American. Inspired by true events—Thomas Sankara is known as “Africa’s Che Guevara”—American Spy knits together a gripping spy thriller, a heartbreaking family drama, and a passionate romance. This is a face of the Cold War you’ve never seen before, and it introduces a powerful new literary voice. **NOMINATED FOR THE NAACP IMAGE AWARD** • Shortlisted for the Center for Fiction First Novel Prize “Spy fiction plus allegory, and a splash of pan-Africanism. What could go wrong? As it happens, very little. Clever, bracing, darkly funny, and really, really good.”—Ta-Nehisi Coates “Inspired by real events, this espionage thriller ticks all the right boxes, delivering a sexually charged interrogation of both politics and race.”—Esquire “Echoing the stoic cynicism of Hurston and Ellison, and the verve of Conan Doyle, American Spy lays our complicities—political, racial, and sexual—bare. Packed with unforgettable characters, it’s a stunning book, timely as it is timeless.”—Paul Beatty, Man Booker Prizewinning author of The Sellout

### **The Science of Learning**

NOW IN PAPERBACK"€"Starting from a collection of simple computer

experiments"€"illustrated in the book by striking computer graphics"€"Stephen Wolfram shows how their unexpected results force a whole new way of looking at the operation of our universe.

### **Phyllostomid Bats**

Inspired by the abundance of unique personalities available on dating websites, a renowned neuroscientist examines the science of what makes you, you. David J. Linden has devoted his career to understanding the biology common to all humans. But a few years ago he found himself on OkCupid. Looking through that vast catalog of human diversity, he got to wondering: What makes us all so different? Unique is the riveting answer. Exploring everything from the roots of sexuality, gender, and intelligence to whether we like bitter beer, Linden shows how our individuality results not from a competition of nature versus nurture, but rather from a mlange of genes continually responding to our experiences in the world, beginning in the womb. And he shows why individuality matters, as it is our differences that enable us to live together in groups. Told with Linden's unusual combination of authority and openness, seriousness of purpose and wit, Unique is the story of how the factors that make us all human can change and interact to make each of us a singular person.

### **Spalted Wood**

A spirited collection of essays by cutting-edge neuroscientists that irreverently explores the quirky and counterintuitive aspects of brain function. Neuroscientist David J. Linden approached leading brain researchers and asked each the same question: "What idea about brain function would you most like to explain to the world?" Their responses make up this one-of-a-kind collection of popular science essays that seeks to expand our knowledge of the human mind and its possibilities. The contributors, whose areas of expertise include human behavior, molecular genetics, evolutionary biology, and comparative anatomy, address a host of fascinating topics ranging from personality to perception, to learning, to beauty, to love and sex. The manner in which individual experiences can dramatically change our brains' makeup is explored. Professor Linden and his contributors open a new window onto the landscape of the human mind and into the cutting-edge world of neuroscience with a fascinating and enlightening compilation that science enthusiasts and professionals alike will find accessible and enjoyable.

### **Fishery Science**

It's time to get off the beaten path. Inspiring equal parts wonder and wanderlust,

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Atlas Obscura celebrates over 700 of the strangest and most curious places in the world. Talk about a bucket list: here are natural wonders—the dazzling glowworm caves in New Zealand, or a baobab tree in South Africa that's so large it has a pub inside where 15 people can drink comfortably. Architectural marvels, including the M.C. Escher-like stepwells in India. Mind-boggling events, like the Baby Jumping Festival in Spain, where men dressed as devils literally vault over rows of squirming infants. Not to mention the Great Stalacpipe Organ in Virginia, Turkmenistan's 40-year hole of fire called the Gates of Hell, a graveyard for decommissioned ships on the coast of Bangladesh, eccentric bone museums in Italy, or a weather-forecasting invention that was powered by leeches, still on display in Devon, England. Created by Joshua Foer, Dylan Thuras and Ella Morton, ATLAS OBSCURA revels in the weird, the unexpected, the overlooked, the hidden and the mysterious. Every page expands our sense of how strange and marvelous the world really is. And with its compelling descriptions, hundreds of photographs, surprising charts, maps for every region of the world, it is a book to enter anywhere, and will be as appealing to the armchair traveler as the die-hard adventurer. Anyone can be a tourist. ATLAS OBSCURA is for the explorer.

### **The Compass of Pleasure**

Help Your Kids With Science is a unique visual approach to understanding the sciences and a great resource for frustrated children and adults. Following on from

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the success of Help Your Kids With Math, Help Your Kids With Science is a comprehensive, stress-free, and accessible approach to science, covering a wide range of subjects including biology, physics, and chemistry. Topics are explained using clear graphics and instantly understandable diagrams, accompanied by jargon-free text.

### **Atlas Obscura**

A leading brain scientist looks at the neurobiology of pleasure, exploring how pleasures can become addictions, and how the pursuit of pleasure has become a central drive of the human mind.

### **Lessons from the Clean Air Act**

A bold reimagining of Maslow's famous hierarchy of needs--and new insights for realizing your full potential and living your most creative, fulfilled, and connected life. When psychologist Scott Barry Kaufman first discovered Maslow's unfinished theory of transcendence, sprinkled throughout a cache of unpublished journals, lectures, and essays, he felt a deep resonance with his own work and life. In this groundbreaking book, Kaufman picks up where Maslow left off, unraveling the mysteries of his unfinished theory, and integrating these ideas with the latest

## Free Reading Unique The New Science Of Human Individuality

research on attachment, connection, creativity, love, purpose and other building blocks of a life well lived. Kaufman's new hierarchy of needs provides a roadmap for finding purpose and fulfillment--not by striving for money, success, or "happiness," but by becoming the best version of ourselves, or what Maslow called self-actualization. While self-actualization is often thought of as a purely individual pursuit, Maslow believed that the full realization of potential requires a merging between self and the world. We don't have to choose either self-development or self-sacrifice, but at the highest level of human potential we show a deep integration of both. Transcend reveals this level of human potential that connects us not only to our highest creative potential, but also to one another. With never-before-published insights and new research findings, along with exercises and opportunities to gain insight into your own unique personality, this empowering book is a manual for self-analysis and nurturing a deeper connection not only with our highest potential but also with the rest of humanity.

### **Welcome to Your Brain**

New York Times Book Review 10 Best Books of 2018 A New York Times Notable Book The #1 New York Times bestseller. A brilliant and brave investigation into the medical and scientific revolution taking place around psychedelic drugs--and the spellbinding story of his own life-changing psychedelic experiences When Michael Pollan set out to research how LSD and psilocybin (the active ingredient in magic

mushrooms) are being used to provide relief to people suffering from difficult-to-treat conditions such as depression, addiction and anxiety, he did not intend to write what is undoubtedly his most personal book. But upon discovering how these remarkable substances are improving the lives not only of the mentally ill but also of healthy people coming to grips with the challenges of everyday life, he decided to explore the landscape of the mind in the first person as well as the third. Thus began a singular adventure into various altered states of consciousness, along with a dive deep into both the latest brain science and the thriving underground community of psychedelic therapists. Pollan sifts the historical record to separate the truth about these mysterious drugs from the myths that have surrounded them since the 1960s, when a handful of psychedelic evangelists inadvertently catalyzed a powerful backlash against what was then a promising field of research. A unique and elegant blend of science, memoir, travel writing, history, and medicine, *How to Change Your Mind* is a triumph of participatory journalism. By turns dazzling and edifying, it is the gripping account of a journey to an exciting and unexpected new frontier in our understanding of the mind, the self, and our place in the world. The true subject of Pollan's "mental travelogue" is not just psychedelic drugs but also the eternal puzzle of human consciousness and how, in a world that offers us both suffering and joy, we can do our best to be fully present and find meaning in our lives.

### **Transcend**

## Free Reading Unique The New Science Of Human Individuality

The New York Times bestselling author examines how our sense of touch and emotion are interconnected. Johns Hopkins neuroscientist and bestselling author of *The Compass of Pleasure* David J. Linden presents an engaging and fascinating examination of how the interface between our sense of touch and our emotional responses affects our social interactions as well as our general health and development. Accessible in its wit and clarity, *Touch* explores scientific advances in the understanding of touch that help explain our sense of self and our experience of the world. From skin to nerves to brain, the organization of the body's touch circuits powerfully influences our lives—affecting everything from consumer choice to sexual intercourse, tool use to the origins of language, chronic pain to healing. Interpersonal touch is crucial to social bonding and individual development. Linden lucidly explains how sensory and emotional context work together to distinguish between perceptions of what feels good and what feels bad. Linking biology and behavioral science, Linden offers an entertaining and enlightening answer to how we feel in every sense of the word. From the Hardcover edition.

### **Help Your Kids with Language Arts**

Although we can't usually see them, microbes are essential for every part of human life -- indeed all life on Earth. The emerging field of metagenomics offers a new way of exploring the microbial world that will transform modern microbiology

and lead to practical applications in medicine, agriculture, alternative energy, environmental remediation, and many others areas. Metagenomics allows researchers to look at the genomes of all of the microbes in an environment at once, providing a "meta" view of the whole microbial community and the complex interactions within it. It's a quantum leap beyond traditional research techniques that rely on studying -- one at a time -- the few microbes that can be grown in the laboratory. At the request of the National Science Foundation, five Institutes of the National Institutes of Health, and the Department of Energy, the National Research Council organized a committee to address the current state of metagenomics and identify obstacles current researchers are facing in order to determine how to best support the field and encourage its success. The New Science of Metagenomics recommends the establishment of a "Global Metagenomics Initiative" comprising a small number of large-scale metagenomics projects as well as many medium- and small-scale projects to advance the technology and develop the standard practices needed to advance the field. The report also addresses database needs, methodological challenges, and the importance of interdisciplinary collaboration in supporting this new field.

### **Electric Brain**

The award-winning creator of the documentary *The Music Instinct* traces the efforts of visionary researchers and musicians to understand the biological foundations of

music and its relationship to the brain and the physical world. 35,000 first printing.

### **The Language Instinct**

The classic book on the development of human language by the world's leading expert on language and the mind. In this classic, the world's expert on language and mind lucidly explains everything you always wanted to know about language: how it works, how children learn it, how it changes, how the brain computes it, and how it evolved. With deft use of examples of humor and wordplay, Steven Pinker weaves our vast knowledge of language into a compelling story: language is a human instinct, wired into our brains by evolution. The Language Instinct received the William James Book Prize from the American Psychological Association and the Public Interest Award from the Linguistics Society of America. This edition includes an update on advances in the science of language since The Language Instinct was first published.

### **Apollo's Arrow**

For the first time, the history of spalting wood--wood coloration caused by fungi--is detailed in a comprehensive resource covering the science, the history, and the applications of spalting. Featuring 870 photos and photomicrographs, this resource

## Free Reading Unique The New Science Of Human Individuality

goes back 700 years to the beginning of written records of spalting, and follows its evolution from closely guarded guild secret to scientific curiosity to a mainstream art form. Robinson, the leading world expert in spalting and founder of the topic's essential reference site [northernspalting.com](http://northernspalting.com), also presents an introductory guide to spalted woods from around the world. Along with supplier lists and an in-depth look at the most current, groundbreaking research in spalting today, there are full-color photos of spalted works from renowned artists like Mark Lindquist, David Ellsworth, Silas Kopf, and James Krenov, spanning the full spectrum of spalting colors and uses in woodcraft.

### **Think Tank**

Children around the world know that to tell how old a tree is, you count its rings. Few people, however, know that research into tree rings has also made amazing contributions to our understanding of Earth's climate history and its influences on human civilization over the past 2,000 years. In her captivating new book, *Tree Story*, Valerie Trouet reveals how the seemingly simple and relatively familiar concept of counting tree rings has inspired far-reaching scientific breakthroughs that illuminate the complex interactions between nature and people. Trouet, a leading tree-ring scientist, takes us out into the field, from remote African villages to radioactive Russian forests, offering readers an insider's look at tree-ring research, a discipline formally known as dendrochronology. Tracing her own

professional journey while exploring dendrochronology's history and applications, Trouet describes the basics of how tell-tale tree cores are collected and dated with ring-by-ring precision, explaining the unexpected and momentous insights we've gained from the resulting samples. Blending popular science, travelogue, and cultural history, *Tree Story* highlights exciting findings of tree-ring research, including the fate of lost pirate treasure, successful strategies for surviving California wildfire, the secret to Genghis Khan's victories, the connection between Egyptian pharaohs and volcanoes, and even the role of olives in the fall of Rome. These fascinating tales are deftly woven together to show us how dendrochronology sheds light on global climate dynamics and uncovers the clear links between humans and our leafy neighbors. Trouet delights us with her dedication to the tangible appeal of studying trees, a discipline that has taken her to austere and beautiful landscapes around the globe and has enabled scientists to solve long-pondered mysteries of Earth and its human inhabitants.

### **Leadership and the New Science**

A pioneer in brain research outlines a blueprint for human emotions while sharing practical strategies for correcting unhealthy emotional styles, providing recommendations for areas ranging from everyday well-being to the treatments of such conditions as autism and depression. Reprint. 100,000 first printing.

## **Dog Is Love**

A NEW YORK TIMES BESTSELLER From a renowned behavioral neuroscientist and recovering addict, a rare page-turning work of science that draws on personal insights to reveal how drugs work, the dangerous hold they can take on the brain, and the surprising way to combat today's epidemic of addiction. Judith Grisel was a daily drug user and college dropout when she began to consider that her addiction might have a cure, one that she herself could perhaps discover by studying the brain. Now, after twenty-five years as a neuroscientist, she shares what she and other scientists have learned about addiction, enriched by captivating glimpses of her personal journey. In *Never Enough*, Grisel reveals the unfortunate bottom line of all regular drug use: there is no such thing as a free lunch. All drugs act on the brain in a way that diminishes their enjoyable effects and creates unpleasant ones with repeated use. Yet they have their appeal, and Grisel draws on anecdotes both comic and tragic from her own days of using as she limns the science behind the love of various drugs, from marijuana to alcohol, opiates to psychedelics, speed to spice. With more than one in five people over the age of fourteen addicted, drug abuse has been called the most formidable health problem worldwide, and Grisel delves with compassion into the science of this scourge. She points to what is different about the brains of addicts even before they first pick up a drink or drug, highlights the changes that take place in the brain and behavior as a result of chronic using, and shares the surprising hidden gifts of personality that addiction

can expose. She describes what drove her to addiction, what helped her recover, and her belief that a “cure” for addiction will not be found in our individual brains but in the way we interact with our communities. Set apart by its color, candor, and bell-clear writing, *Never Enough* is a revelatory look at the roles drugs play in all of our lives and offers crucial new insight into how we can solve the epidemic of abuse.

### **Future Crimes**

A piercing and scientifically grounded look at the emergence of the coronavirus pandemic and how it will change the way we live — “excellent and timely.” (The New Yorker) *Apollo's Arrow* offers a riveting account of the impact of the coronavirus pandemic as it swept through American society in 2020, and of how the recovery will unfold in the coming years. Drawing on momentous (yet dimly remembered) historical epidemics, contemporary analyses, and cutting-edge research from a range of scientific disciplines, bestselling author, physician, sociologist, and public health expert Nicholas A. Christakis explores what it means to live in a time of plague — an experience that is paradoxically uncommon to the vast majority of humans who are alive, yet deeply fundamental to our species. Unleashing new divisions in our society as well as opportunities for cooperation, this 21st-century pandemic has upended our lives in ways that will test, but not vanquish, our already frayed collective culture. Featuring new, provocative

## Free Reading Unique The New Science Of Human Individuality

arguments and vivid examples ranging across medicine, history, sociology, epidemiology, data science, and genetics, Apollo's Arrow envisions what happens when the great force of a deadly germ meets the enduring reality of our evolved social nature.

### **Dog Sense**

Examines the successes and failures of the Clean Air Act in order to lay a foundation for future energy policy.

### **The Photo Ark**

What is as unique as your fingerprints and more revealing than your diary? Hint: Your body is emitting them right now and has been every single day of your life. Brainwaves. Analyzing brainwaves, the imperceptible waves of electricity surging across your scalp, has been possible for nearly a century. But only now are neuroscientists becoming aware of the wealth of information brainwaves hold about a person's life, thoughts, and future health. From the moment a reclusive German doctor discovered waves of electricity radiating from the heads of his patients in the 1920s, brainwaves have sparked astonishment and intrigue, yet the significance of the discovery and its momentous implications have been poorly

## Free Reading Unique The New Science Of Human Individuality

understood. Now, it is clear that these silent broadcasts can actually reveal a stunning wealth of information about any one of us. In *Electric Brain*, world-renowned neuroscientist and author R. Douglas Fields takes us on an enthralling journey into the world of brainwaves, detailing how new brain science could fundamentally change society, separating fact from hyperbole along the way. In this eye-opening and in-depth look at the most recent findings in brain science, Fields explores groundbreaking research that shows brainwaves can: Reveal the type of brain you have—its strengths and weaknesses and your aptitude for learning different types of information Allow scientists to watch your brain learn, glean your intelligence, and even tell how adventurous you are Expose hidden dysfunctions—including signifiers of mental illness and neurological disorders Render your thoughts and transmit them to machines and back from machines into your brain Meld minds by telepathically transmitting information from one brain to another Enable individuals to rewire their own brains and improve cognitive performance Written by one of the neuroscientists on the cutting edge of brainwave research, *Electric Brain* tells a fascinating and obscure story of discovery, explains the latest science, and looks to the future—and the exciting possibilities in store for medicine, technology, and our understanding of ourselves.

### **The Scientist as Rebel**

It is now clear that data based on the studies of fish eggs and larvae make a

## Free Reading Unique The New Science Of Human Individuality

number of unique contributions to fishery science that are crucial for accurate assessment and management of fish populations, including those of commercially important fisheries. This valuable book demonstrates why fish eggs and larvae are important, how the characteristics of early life stages require a somewhat different research approach and how information on early life stages can be applied and interpreted to yield unique insights into fish populations. The editors of Fishery Science have drawn together an extremely useful and well-written book with contributions from internationally respected researchers from North America, Asia and Europe. Chapters include a discussion of the unique nature of early life stages, age and growth, mortality, recruitment, populations analysis, habitats, human impacts and management. A carefully selected set of case studies demonstrates several specific applications of early life history information to a number of fishery problems. Fishery Science was designed to complement existing textbooks and is an essential purchase for all fisheries students and professionals, and for biologists working on the early life stages of fish. This exciting book is also of great value to ecologists, marine, freshwater and environmental scientists, population biologists and oceanographers. All libraries in universities and research establishments where biological and fishery science are studied and taught should have copies of this book available on their shelves.

### **Animals by Design**

Reduce the stress of studying English and help your child with their homework! The perfect guide for parents who want to assist their children with schoolwork, Help Your Kids with Language Arts is designed to make all facets of studying the English language easy and interesting. Presenting the ins and outs of English in a clear, visual, and accessible style, Help Your Kids with Language Arts covers everything from the basic concepts of grammar, punctuation, spelling, and communication skills to some of the more challenging ideas that face students today.

### **The New Science of Metagenomics**

"The Phyllostomidae family of bats is extremely ecologically diverse, displaying more morphological variation than any other mammal family. It also provides one of the most famed examples of adaptive radiation, an area of study that allows biologists to see the dramatic evidence of the power of natural selection and opportunism in the evolution of life on Earth. The bats are also a beloved subject of study by biologists—from mammalogists to evolutionary biologists to conservation biologists—for the role they play in the health of tropical ecosystems, especially as key pollinators. Phyllostomid bats are abundant, occupying systems from the southwestern United States to Argentina and throughout the West Indies. The family's diversity represents itself through two hundred species and manifests mainly in skull morphology and diet. They suck blood, eat small vertebrates, enjoy occasional fruits, and sip nectar here and there, too. They have a distinctive nose,

reminiscent of a creature from a Hieronymus Bosch painting, thought to have evolved in various forms to reflect the preferred diet of different species. This collection presents in great detail what is currently known of the bats and divulges a trove of information about this incredible example of mammalian radiation"--

### **How to Change Your Mind**

This lush book of photography represents National Geographic's Photo Ark, a major cross-platform initiative and lifelong project by photographer Joel Sartore to make portraits of the world's animals-especially those that are endangered. His powerful message, conveyed with humor, compassion, and art- to know these animals is to save them.Sartore intends to photograph every animal in captivity in the world. He is circling the globe, visiting zoos and wildlife rescue centers to create studio portraits of 12,000 species, with an emphasis on those facing extinction. He has photographed more than 6,000 already and now, thanks to a multi-year partnership with National Geographic, he may reach his goal. This book showcases his animal portraits- from tiny to mammoth, from the Florida grasshopper sparrow to the greater one-horned rhinoceros. Paired with the eloquent prose of veteran wildlife writer Douglas Chadwick, this book presents a thought-provoking argument for saving all the species of our planet.

## **A World Beyond Physics**

A bestseller--more than 300,000 copies sold, translated into seventeen languages, and featured in the Los Angeles Times, Washington Post, Miami Herald, Harvard Business Review, Fast Company, and Fortune; Shows how discoveries in quantum physics, biology, and chaos theory enable us to deal successfully with change and uncertainty in our organizations and our lives; Includes a new chapter on how the new sciences can help us understand and cope with some of the major social challenges of our times We live in a time of chaos, rich in potential for new possibilities. A new world is being born. We need new ideas, new ways of seeing, and new relationships to help us now. New science--the new discoveries in biology, chaos theory, and quantum physics that are changing our understanding of how the world works--offers this guidance. It describes a world where chaos is natural, where order exists "for free." It displays the intricate webs of cooperation that connect us. It assures us that life seeks order, but uses messes to get there. Leadership and the New Science is the bestselling, most acclaimed, and most influential guide to applying the new science to organizations and management. In it, Wheatley describes how the new science radically alters our understanding of the world, and how it can teach us to live and work well together in these chaotic times. It will teach you how to move with greater certainty and easier grace into the new forms of organizations and communities that are taking shape.

## **A New Kind of Science**

From the author of How Emotions Are Made, a myth-busting primer on the brain, in the tradition of Seven Brief Lessons on Physics and Astrophysics for People in a Hurry

## **Never Enough**

Major New York Times bestseller Winner of the National Academy of Sciences Best Book Award in 2012 Selected by the New York Times Book Review as one of the ten best books of 2011 A Globe and Mail Best Books of the Year 2011 Title One of The Economist's 2011 Books of the Year One of The Wall Street Journal's Best Nonfiction Books of the Year 2011 2013 Presidential Medal of Freedom Recipient Kahneman's work with Amos Tversky is the subject of Michael Lewis's The Undoing Project: A Friendship That Changed Our Minds In the international bestseller, Thinking, Fast and Slow, Daniel Kahneman, the renowned psychologist and winner of the Nobel Prize in Economics, takes us on a groundbreaking tour of the mind and explains the two systems that drive the way we think. System 1 is fast, intuitive, and emotional; System 2 is slower, more deliberative, and more logical. The impact of overconfidence on corporate strategies, the difficulties of predicting what will make us happy in the future, the profound effect of cognitive biases on everything

## Free Reading Unique The New Science Of Human Individuality

from playing the stock market to planning our next vacation—each of these can be understood only by knowing how the two systems shape our judgments and decisions. Engaging the reader in a lively conversation about how we think, Kahneman reveals where we can and cannot trust our intuitions and how we can tap into the benefits of slow thinking. He offers practical and enlightening insights into how choices are made in both our business and our personal lives—and how we can use different techniques to guard against the mental glitches that often get us into trouble. Winner of the National Academy of Sciences Best Book Award and the Los Angeles Times Book Prize and selected by The New York Times Book Review as one of the ten best books of 2011, *Thinking, Fast and Slow* is destined to be a classic.

### **Seven and a Half Lessons about the Brain**

Introduces the theory of adult attachment as an advanced relationship science that can enable individuals to find and sustain love, offering insight into the roles of genetics and early family life in how people approach relationships.

### **Help Your Kids with Science**

### **Touch**

The creator of the incredibly popular webcomic xkcd presents his heavily researched answers to his fans' oddest questions, including “What if I took a swim in a spent-nuclear-fuel pool?” and “Could you build a jetpack using downward-firing machine guns?” 100,000 first printing.

### **The Accidental Mind**

One of the world's leading neuroscientists explores how best to understand the human condition by examining the biological, psychological, and highly social nature of our species within the social context of our lives. What happened along the evolutionary trail that made humans so unique? In his widely accessible style, Michael Gazzaniga looks to a broad range of studies to pinpoint the change that made us thinking, sentient humans, different from our predecessors. Neuroscience has been fixated on the life of the psychological self for the past fifty years, focusing on the brain systems underlying language, memory, emotion, and perception. What it has not done is consider the stark reality that most of the time we humans are thinking about social processes, comparing ourselves to and estimating the intentions of others. In *Human*, Gazzaniga explores a number of related issues, including what makes human brains unique, the importance of

language and art in defining the human condition, the nature of human consciousness, and even artificial intelligence.

### **What If?**

Linden sets the record straight about the construction of the human brain; rather than the “beautifully-engineered optimized device, the absolute pinnacle of design” portrayed in many dumbed-down text books, pop-science tomes, and education televisions programs, Linden’s organ is a complicated assembly of cobbled-together functionality that created the mind as a by-product of ad-hoc solutions to questions of survival. His guided tour of the glorious amalgam of “crummy parts” includes pit-stops in the histories and fundamentals of neurology, neural-psychology, physiology, molecular and cellular biology, and genetics.

### **The Power of Music**

A pioneering canine behaviorist draws on cutting-edge research to show that a single, simple trait—the capacity to love—is what makes dogs such perfect companions for humans, and explains how we can better reciprocate their affection. “Lively and fascinating . . . The reader comes away cheered, better informed, and with a new and deeper appreciation for our amazing canine

companions and their enormous capacity for love.” —Cat Warren, New York Times best-selling author of *What the Dog Knows Does your dog love you?* Every dog lover knows the feeling. The nuzzle of a dog’s nose, the warmth of them lying at our feet, even their whining when they want to get up on the bed. It really seems like our dogs love us, too. But for years, scientists have resisted that conclusion, warning against anthropomorphizing our pets. Enter Clive Wynne, a pioneering canine behaviorist whose research is helping to usher in a new era: one in which love, not intelligence or submissiveness, is at the heart of the human-canine relationship. Drawing on cutting-edge studies from his lab and others around the world, Wynne shows that affection is the very essence of dogs, from their faces and tails to their brains, hormones, even DNA. This scientific revolution is revealing more about dogs’ unique origins, behavior, needs, and hidden depths than we ever imagined possible. A humane, illuminating book, *Dog Is Love* is essential reading for anyone who has ever loved a dog—and experienced the wonder of being loved back.

### **Tree Story**

How did life start? Is the evolution of life describable by any physics-like laws? Stuart Kauffman's latest book offers an explanation-beyond what the laws of physics can explain-of the progression from a complex chemical environment to molecular reproduction, metabolism and to early protocells, and further evolution

to what we recognize as life. Among the estimated one hundred billion solar systems in the known universe, evolving life is surely abundant. That evolution is a process of "becoming" in each case. Since Newton, we have turned to physics to assess reality. But physics alone cannot tell us where we came from, how we arrived, and why our world has evolved past the point of unicellular organisms to an extremely complex biosphere. Building on concepts from his work as a complex systems researcher at the Santa Fe Institute, Kauffman focuses in particular on the idea of cells constructing themselves and introduces concepts such as "constraint closure." Living systems are defined by the concept of "organization" which has not been focused on in enough in previous works. Cells are autopoietic systems that build themselves: they literally construct their own constraints on the release of energy into a few degrees of freedom that constitutes the very thermodynamic work by which they build their own self creating constraints. Living cells are "machines" that construct and assemble their own working parts. The emergence of such systems-the origin of life problem-was probably a spontaneous phase transition to self-reproduction in complex enough prebiotic systems. The resulting protocells were capable of Darwin's heritable variation, hence open-ended evolution by natural selection. Evolution propagates this burgeoning organization. Evolving living creatures, by existing, create new niches into which yet further new creatures can emerge. If life is abundant in the universe, this self-constructing, propagating, exploding diversity takes us beyond physics to biospheres everywhere.

## Attached

NEW YORK TIMES and WALL STREET JOURNAL BESTSELLER ONE OF THE WASHINGTON POST'S 10 BEST BOOKS OF 2015 One of the world's leading authorities on global security, Marc Goodman takes readers deep into the digital underground to expose the alarming ways criminals, corporations, and even countries are using new and emerging technologies against you—and how this makes everyone more vulnerable than ever imagined. Technological advances have benefited our world in immeasurable ways, but there is an ominous flip side: our technology can be turned against us. Hackers can activate baby monitors to spy on families, thieves are analyzing social media posts to plot home invasions, and stalkers are exploiting the GPS on smart phones to track their victims' every move. We all know today's criminals can steal identities, drain online bank accounts, and wipe out computer servers, but that's just the beginning. To date, no computer has been created that could not be hacked—a sobering fact given our radical dependence on these machines for everything from our nation's power grid to air traffic control to financial services. Yet, as ubiquitous as technology seems today, just over the horizon is a tidal wave of scientific progress that will leave our heads spinning. If today's Internet is the size of a golf ball, tomorrow's will be the size of the sun. Welcome to the Internet of Things, a living, breathing, global information grid where every physical object will be online. But with greater connections come greater risks. Implantable medical devices such as pacemakers

can be hacked to deliver a lethal jolt of electricity and a car's brakes can be disabled at high speed from miles away. Meanwhile, 3-D printers can produce AK-47s, bioterrorists can download the recipe for Spanish flu, and cartels are using fleets of drones to ferry drugs across borders. With explosive insights based upon a career in law enforcement and counterterrorism, Marc Goodman takes readers on a vivid journey through the darkest recesses of the Internet. Reading like science fiction, but based in science fact, *Future Crimes* explores how bad actors are primed to hijack the technologies of tomorrow, including robotics, synthetic biology, nanotechnology, virtual reality, and artificial intelligence. These fields hold the power to create a world of unprecedented abundance and prosperity. But the technological bedrock upon which we are building our common future is deeply unstable and, like a house of cards, can come crashing down at any moment. *Future Crimes* provides a mind-blowing glimpse into the dark side of technological innovation and the unintended consequences of our connected world. Goodman offers a way out with clear steps we must take to survive the progress unfolding before us. Provocative, thrilling, and ultimately empowering, *Future Crimes* will serve as an urgent call to action that shows how we can take back control over our own devices and harness technology's tremendous power for the betterment of humanity—before it's too late. From the Hardcover edition.

### **American Spy**

## Free Reading Unique The New Science Of Human Individuality

Dogs have been mankind's faithful companions for tens of thousands of years, yet today they are regularly treated as either pack-following wolves or furry humans. The truth is, dogs are neither--and our misunderstanding has put them in serious crisis. What dogs really need is a spokesperson, someone who will assert their specific needs. Renowned anthrozoologist Dr. John Bradshaw has made a career of studying human-animal interactions, and in *Dog Sense* he uses the latest scientific research to show how humans can live in harmony with--not just dominion over--their four-legged friends. From explaining why positive reinforcement is a more effective (and less damaging) way to control dogs' behavior than punishment to demonstrating the importance of weighing a dog's unique personality against stereotypes about its breed, Bradshaw offers extraordinary insight into the question of how we really ought to treat our dogs.

### **Unique**

Supporting teachers in the quest to help students learn as effectively and efficiently as possible, *The Science of Learning* translates 77 of the most important and influential studies on the topic of learning into accessible and easily digestible overviews. Demystifying key concepts and translating research into practical advice for the classroom, this unique resource will increase teachers' understanding of crucial psychological research so they can help students improve how they think, feel and behave in school. From large to- small-scale studies, from

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the quirky to the iconic, *The Science of Learning* breaks down complicated research to provide teachers with the need-to-know facts and implications of each study. Each overview combines graphics and text, asks key questions, describes related research and considers implications for practice. Highly accessible, each overview is attributed to one of seven key categories: Memory: increasing how much students remember Mindset, motivation and resilience: improving persistence, effort and attitude Self-regulation and metacognition: helping students to think clearly and consistently Student behaviours: encouraging positive student habits and processes Teacher attitudes, expectations and behaviours: adopting positive classroom practices Parents: how parents' choices and behaviours impact their childrens' learning Thinking biases: avoiding faulty thinking habits that get in the way of learning A hugely accessible resource, this unique book will support, inspire and inform teaching staff, parents and students, and those involved in leadership and CPD.

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