

Unique The New Science Of Human Individuality

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Unique Considerations of the Female Athlete

A Wrinkle in Time is the winner of the 1963 Newbery Medal. It was a dark and stormy night—Meg Murry, her small brother Charles Wallace, and her mother had come down to the kitchen for a midnight snack when they were upset by the arrival of a most disturbing stranger. "Wild nights are my glory," the unearthly stranger told them. "I just got caught in a downdraft and blown off course. Let me sit down for a moment, and then I'll be on my way. Speaking of ways, by the way, there is such a thing as a tesseract." A tesseract (in case the reader doesn't know) is a wrinkle in time. To tell more would rob the reader of the enjoyment of Miss L'Engle's unusual book. A Wrinkle in Time, winner of the Newbery Medal in 1963, is the story of the adventures in space and time of Meg, Charles Wallace, and Calvin O'Keefe (athlete, student, and one of

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the most popular boys in high school). They are in search of Meg's father, a scientist who disappeared while engaged in secret work for the government on the tesseract problem.

Electric Brain

The entertainment industry has long been dominated by legendary screenwriter William Goldman's "Nobody-Knows-Anything" mantra, which argues that success is the result of managerial intuition and instinct. This book builds the case that combining such intuition with data analytics and rigorous scholarly knowledge provides a source of sustainable competitive advantage — the same recipe for success that is behind the rise of firms such as Netflix and Spotify, but has also fueled Disney's recent success. Unlocking a large repertoire of scientific studies by business scholars and entertainment economists, the authors identify essential factors, mechanisms, and methods that help a new entertainment product succeed. The book thus offers a timely alternative to "Nobody-Knows" decision-making in the digital era: while coupling a good idea with smart data analytics and entertainment theory cannot guarantee a hit, it systematically and substantially increases the probability of success in the entertainment industry. Entertainment Science is poised to inspire fresh new thinking among managers, students of entertainment, and scholars alike. Thorsten Hennig-Thurau and Mark B. Houston — two of our finest scholars in the area of entertainment marketing — have produced a definitive research-based compendium that cuts across various branches of the arts to explain the phenomena that provide consumption experiences to capture the hearts and minds of audiences. Morris B. Holbrook, W. T. Dillard Professor Emeritus of Marketing, Columbia University Entertainment Science is a must-read for everyone working in the entertainment industry today, where the impact of digital and the use of big data can't be ignored anymore. Hennig-Thurau and

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Houston are the scientific frontrunners of knowledge that the industry urgently needs. Michael Kölmel, media entrepreneur and Honorary Professor of Media Economics at University of Leipzig Entertainment Science's winning combination of creativity, theory, and data analytics offers managers in the creative industries and beyond a novel, compelling, and comprehensive approach to support their decision-making. This ground-breaking book marks the dawn of a new Golden Age of fruitful conversation between entertainment scholars, managers, and artists. Allège Hadida, Associate Professor in Strategy, University of Cambridge

Apollo's Arrow

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom.

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Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

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

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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.

Leadership and the New Science

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 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

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CPD.

Never Enough

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 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.

Transcend

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 arguments and vivid examples ranging across medicine, history, sociology, epidemiology, data science, and genetics, Apollo's

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Arrow envisions what happens when the great force of a deadly germ meets the enduring reality of our evolved social nature.

How People Learn II

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.

A World Beyond Physics

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.

Who We Are and How We Got Here

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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.

The Power of Music

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.

Spalted Wood

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

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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 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.

Dog Is Love

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

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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.

Fishery Science

There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth

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look at the constellation of influences that affect individual learning. How People Learn II will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

Help Your Kids with Language Arts

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

Animals by Design

A pioneer of quantum computing describes how the Internet and powerful new online tools are democratising and accelerating scientific discovery.

Reinventing Discovery

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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 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.

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The Language Instinct

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.

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Thinking, Fast and Slow

"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"--

Dog Sense

David Reich describes how the revolution in the ability to sequence ancient DNA has changed our understanding of the deep human past. This book tells the emerging story of our often surprising ancestry - the extraordinary ancient migrations and mixtures of populations that have made us who we are.

A Wrinkle in Time

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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.

Peak

For the first time, the history of spalted 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 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, 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

It is now clear that data based on the studies of fish eggs and larvae make a number of unique contributions to fishery science that are

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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, populations 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.

Unique

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

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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.

How to Change Your Mind

Wheat: Chemistry and Technology

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

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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 *mélange* 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.

Future Crimes

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.

Concepts of Biology

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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.

Come as You Are

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.

The Emotional Life of Your Brain

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

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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.

Help Your Kids with Science

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

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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.

Human

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

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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.

The Science of Learning

“This book is a breakthrough, a lyrical, powerful, science-based narrative that actually shows us how to get better (much better) at the things we care about.” —Seth Godin, author of *Linchpin* “Anyone who wants to get better at anything should read [Peak]. Rest assured that the book is not mere theory. Ericsson’s research focuses on the real world, and he explains in detail, with examples, how all of us can apply the principles of great performance in our work or in any other part of our lives.” —Fortune Anders Ericsson has made a career studying chess champions, violin virtuosos, star athletes, and memory mavens. *Peak* distills three decades of myth-shattering research into a powerful learning strategy that is fundamentally different from the way people traditionally think about acquiring new abilities. Whether you want to stand out at work, improve your athletic or musical performance, or help your child achieve academic goals, Ericsson’s revolutionary methods will show you how to improve at almost any skill that matters to you. “The science of excellence can be divided into two eras: before Ericsson and after Ericsson. His groundbreaking work, captured in this brilliantly useful book, provides us with a blueprint for achieving the most important and life-changing work possible: to become a little bit better each day.” —Dan Coyle, author of *The Talent Code* “Ericsson’s research has revolutionized how we think about human achievement. If everyone would take the lessons of this book to heart, it could truly change the world.” —Joshua Foer, author of *Moonwalking with Einstein*

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Welcome to Your Brain

Research shows that women athletes perform better when their unique considerations and differences are addressed in training and rehabilitation. *Unique Considerations of the Female Athlete* is written to help improve performance in women athletes and improve the safety and well-being of women participating in sporting events. Specifically, this book presents the strategies for identifying risk factors, preventing injury, and rehabilitating problems or injuries. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Compass of Pleasure

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

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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.

Phyllostomid Bats

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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 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.

The Accidental Mind

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

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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.

Women in Science

Wheat science has undergone countless new developments since the previous edition was published. *Wheat: Chemistry and Technology, Fourth Edition* ushers in a new era in our knowledge of this mainstay grain. This new edition is completely revised, providing the latest information on wheat grain development, structure, and composition including vital peer-reviewed information not readily available online. It contains a wealth of new information on the structure and functional properties of gluten (Ch. 6), micronutrients and phytochemicals in wheat grain (Ch. 7), and transgenic manipulation of wheat quality (Ch. 12). With the new developments in molecular biology, genomics, and other emerging technologies, this fully updated book is a treasure trove of the latest information for grain science professionals and food technologists alike. Chapters on the composition of wheat-proteins (Ch. 8), carbohydrates (Ch. 9) lipids (Ch. 10), and enzymes (Ch. 11.), have been completely revised and present new insight into the important building blocks of our knowledge of wheat chemistry and technology. The agronomical importance of the wheat crop and its affect on food industry commerce provide an enhanced

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understanding of one of the world's largest food crop. Most chapters are entirely rewritten by new authors to focus on modern developments. This 480-page monograph includes a new large 8.5 x 11 two-column format with color throughout and an easy to read style. *Wheat: Chemistry and Technology, Fourth Edition* provides a comprehensive background on wheat science and makes the latest information available to grain science professionals at universities, institutes, and industry including milling and baking companies, and anywhere wheat ingredients are used. This book will also be a useful supplementary text for classes teaching cereal technology, cereal science, cereal chemistry, food science, food chemistry, milling, and nutritional properties of cereals. Cereal and food science graduate students will find Chapter 1 - "Wheat: A Unique Grain for the World" particularly helpful because it provides a succinct summary of wheat chemistry.

Touch

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

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

Entertainment Science

An essential exploration of why and how women's sexuality works—based on groundbreaking research and brain science—that will radically transform your sex life into one filled with confidence and joy. Researchers have spent the last decade trying to develop a “pink pill” for women to function like Viagra does for men. So where is it? Well, for reasons this book makes crystal clear, that pill will never be the answer—but as a result of the research that's gone into it, scientists in the last few years have learned more about how women's sexuality works than we ever thought possible, and *Come as You Are* explains it all. The first lesson in this essential, transformative book by Dr. Emily Nagoski is that every woman has her own unique sexuality, like a fingerprint, and that women vary more than men in our anatomy, our sexual response mechanisms, and the way our bodies respond to the sexual world. So we never need to judge ourselves based on others' experiences. Because women vary, and that's normal. Second lesson: sex happens in a context. And all the complications of everyday life influence the context surrounding a woman's arousal, desire, and orgasm. Cutting-edge research across multiple disciplines tells us that the most important factor for women in creating and sustaining a fulfilling sex life, is not what you do in bed or how you do it, but how you feel about it. Which means that stress, mood, trust, and body image are not peripheral factors in a woman's sexual wellbeing; they are central to it. Once you understand these factors, and how to influence them, you can create for yourself better sex and more profound pleasure than you ever thought possible. And Emily Nagoski can prove it.

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