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The Science of Science The Science Book The Science of Mom The Science of Love and Betrayal The Science of Avatar The Science of Citizen Science The Science of Education Proof The Science of Health Disparities Research The Science of Interest The Science of Boys The Science of Storytelling The Science of Character The Science of the Sacred The Book of Why The Science of the Mind The Science of Science Policy The Science of Sleep The Science of Marvel The Science of Why The Science of Breaking Bad The Science of Diversity The Science of Interstellar The Science of Bureaucracy Make It Stick The Science of Can and Can't The Science of Middle-earth The Science of Consciousness The Science of Cooking The Science of Yoga The Science of Musical Sound The Science of Monsters Science of Running The Science of Cheese The Science of Managing Our Digital Stuff The ArcGIS Book The Science of Being Angry The Science of Powerful Focus The Science of Crime Scenes e-Learning and the Science of Instruction

The Science of Musical Sound Jul 27 2020

The Science of Managing Our Digital Stuff Mar 23 2020 Why we organize our personal digital data the way we do and how design of new PIM systems can help us manage our information more efficiently. Each of us has an ever-growing collection of personal digital data: documents, photographs, PowerPoint presentations, videos, music, emails and texts sent and received. To access any of this, we have to find it. The ease (or difficulty) of finding something depends on how we organize our digital stuff. In this book, personal information management (PIM) experts Ofer

Bergman and Steve Whittaker explain why we organize our personal digital data the way we do and how the design of new PIM systems can help us manage our collections more efficiently. Bergman and Whittaker report that many of us use hierarchical folders for our personal digital organizing. Critics of this method point out that information is hidden from sight in folders that are often within other folders so that we have to remember the exact location of information to access it. Because of this, information scientists suggest other methods: search, more flexible than navigating folders; tags, which allow multiple categorizations; and group information management. Yet Bergman and Whittaker have found in their pioneering PIM research that these other methods that work best for public information management don't work as well for personal information management. Bergman and Whittaker describe personal information collection as curation: we preserve and organize this data to ensure our future access to it. Unlike other information management fields, in PIM the same user organizes and retrieves the information. After explaining the cognitive and psychological reasons that so many prefer folders, Bergman and Whittaker propose the user-subjective approach to PIM, which does not replace folder hierarchies but exploits these unique characteristics of PIM.

The Science of Bureaucracy Mar 03 2021 How the US Environmental Protection Agency designed the governance of risk and forged its legitimacy over the course of four decades. The US Environmental Protection Agency was established in 1970 to protect the public health and environment, administering and enforcing a range of statutes and programs. Over four decades, the EPA has been a risk bureaucracy, formalizing many of the methods of the scientific governance of risk, from quantitative risk assessment to risk ranking. Demortain traces the creation of these methods for the governance of risk, the controversies to which they responded, and the controversies that they aroused in turn. He discusses the professional networks in which they were

conceived; how they were used; and how they served to legitimize the EPA. Demortain argues that the EPA is structurally embedded in controversy, resulting in constant reevaluation of its credibility and fueling the evolution of the knowledge and technologies it uses to produce decisions and to create a legitimate image of how and why it acts on the environment. He describes the emergence and institutionalization of the risk assessment–risk management framework codified in the National Research Council's Red Book, and its subsequent unraveling as the agency's mission evolved toward environmental justice, ecological restoration, and sustainability, and as controversies over determining risk gained vigor in the 1990s. Through its rise and fall at the EPA, risk decision-making enshrines the science of a bureaucracy that learns how to make credible decisions and to reform itself, amid constant conflicts about the environment, risk, and its own legitimacy.

The Science of Monsters Jun 25 2020 "Previously published as Medusa's gaze and vampire's bite by Scribner"--Title page verso.

The Science of Interstellar Apr 04 2021 A journey through the otherworldly science behind Christopher Nolan's award-winning film, Interstellar, from executive producer and Nobel Prize-winning physicist Kip Thorne. Interstellar, from acclaimed filmmaker Christopher Nolan, takes us on a fantastic voyage far beyond our solar system. Yet in The Science of Interstellar, Kip Thorne, the Nobel prize-winning physicist who assisted Nolan on the scientific aspects of Interstellar, shows us that the movie's jaw-dropping events and stunning, never-before-attempted visuals are grounded in real science. Thorne shares his experiences working as the science adviser on the film and then moves on to the science itself. In chapters on wormholes, black holes, interstellar travel, and much more, Thorne's scientific insights—many of them triggered during the actual scripting and shooting of Interstellar—describe the physical laws that govern our universe and the truly astounding phenomena that those laws

make possible. Interstellar and all related characters and elements are trademarks of and © Warner Bros. Entertainment Inc. (s14).

Make It Stick Feb 02 2021 Discusses the best methods of learning, describing how rereading and rote repetition are counterproductive and how such techniques as self-testing, spaced retrieval, and finding additional layers of information in new material can enhance learning.

The Science of Love and Betrayal Nov 23 2022 Falling in love is one of the strangest things we can do, and one of the things that makes us uniquely human. But what happens to our brains when our eyes meet across a crowded room? How are our romantic relationships different from our relationships with friends, family or even God? This book deals with these questions.

The Science of Character Feb 14 2022 The Science of Character makes a bold new claim for the power of the literary by showing how Victorian novelists used fiction to theorize how character forms. In 1843, the Victorian philosopher John Stuart Mill called for the establishment of a new science, “the science of the formation of character.” Although Mill’s proposal failed as scientific practice, S. Pearl Brilmyer maintains that it found its true home in realist fiction of the period, which employed the literary figure of character to investigate the nature of embodied experience. Bringing to life Mill’s unrealized dream of a science of character, novelists such as George Eliot, Thomas Hardy, and Olive Schreiner turned to narrative to explore how traits and behaviors in organisms emerge and develop, and how aesthetic features—shapes, colors, and gestures—come to take on cultural meaning through certain categories, such as race and sex. Engaged with materialist science and philosophy, these authors transformed character from the liberal notion of the inner truth of an individual into a materially determined figuration produced through shifts in the boundaries between the body’s inside and outside. In their hands, Brilmyer argues, literature became a

science, not in the sense that its claims were falsifiable or even systematically articulated, but in its commitment to uncovering, through a fictional staging of realistic events, the laws governing physical and affective life. *The Science of Character* redraws late Victorian literary history to show how women and feminist novelists pushed realism to its aesthetic and philosophical limits in the crucial span between 1870 and 1920.

***The Book of Why* Dec 12 2021 A pioneer of artificial intelligence shows how the study of causality revolutionized science and the world 'Correlation does not imply causation.' This mantra was invoked by scientists for decades in order to avoid taking positions as to whether one thing caused another, such as smoking and cancer and carbon dioxide and global warming. But today, that taboo is dead. The causal revolution, sparked by world-renowned computer scientist Judea Pearl and his colleagues, has cut through a century of confusion and placed cause and effect on a firm scientific basis. Now, Pearl and science journalist Dana Mackenzie explain causal thinking to general readers for the first time, showing how it allows us to explore the world that is and the worlds that could have been. It is the essence of human and artificial intelligence. And just as Pearl's discoveries have enabled machines to think better, *The Book of Why* explains how we can think better.**

***The Science of Storytelling* Mar 15 2022 The compelling, groundbreaking guide to creative writing that reveals how the brain responds to storytelling Stories shape who we are. They drive us to act out our dreams and ambitions and mold our beliefs. Storytelling is an essential part of what makes us human. So, how do master storytellers compel us? In *The Science of Storytelling*, award-winning writer and acclaimed teacher of creative writing Will Storr applies dazzling psychological research and cutting-edge neuroscience to our myths and archetypes to show how we can write better stories, revealing, among other things, how storytellers—and also our brains—create worlds by**

being attuned to moments of unexpected change. Will Storr's superbly chosen examples range from Harry Potter to Jane Austen to Alice Walker, Greek drama to Russian novels to Native American folk tales, King Lear to Breaking Bad to children's stories. With sections such as "The Dramatic Question," "Creating a World," and "Plot, Endings, and Meaning," as well as a practical, step-by-step appendix dedicated to "The Sacred Flaw Approach," The Science of Storytelling reveals just what makes stories work, placing it alongside such creative writing classics as John Yorke's Into the Woods: A Five-Act Journey into Story and Lajos Egri's The Art of Dramatic Writing. Enlightening and empowering, The Science of Storytelling is destined to become an invaluable resource for writers of all stripes, whether novelist, screenwriter, playwright, or writer of creative or traditional nonfiction.

The Science of the Mind Nov 11 2021 First published in 1926, this book is the most important writing from preacher Ernest Shurtleff Holmes. In it, he strives to introduce man to himself, as he truly is. Man is part of the Infinite Spirit, as is all of the visible and invisible in existence. And sharing in the creative power of the Infinite, man becomes able to make thought manifest, as is the case with illness. Holmes explains how the mind controls illness in the body and how changing one's mental state can be healing. In this volume, Holmes gives readers a complete course in Mental Science, so that they may come to understand the power and potential that exists within. Anyone looking for a new way to understand the world and their place in it will find this an empowering read.

The Science of Consciousness Oct 30 2020 An introduction to the psychology, philosophy, and neuroscience of consciousness, including sleep, dreaming, meditative, and altered states.

The Science of Powerful Focus Dec 20 2019 Overhaul your approach to concentration and productivity using strategic, science-proven methods to save hours a day and achieve twice

as much. Your current focus and productivity tactics might be “adequate.” But they will never be great or reach their potential if you don’t understand how your psychology and physiology work together to affect your focus. Short circuit your brain into instant focus. The Science of Powerful Focus looks at focus in a revolutionary new way, and sheds light on studies both new and old that lead to the path of massive productivity and conquering of goals. It is a holistic view of how focus can be tackled from every angle of a person’s life. Other books will tell you to simply ditch your phone, stop multi-tasking, and sleep more. Is that really helpful information, or is it just common sense? Here, even the concept of focus is re-defined, and you will learn a plethora of actionable ways to integrate science into your daily life. Clear your mind, sit, and grind. Peter Hollins has studied psychology and peak human performance for over a dozen years and is a bestselling author. He has worked with dozens of individuals to unlock their potential and path towards success. His writing draws on his academic, coaching, and research experience. Defeat distractions and get “into the zone” on command. •Master the foundations of discipline and willpower. •Set goals that inevitable. •The biological basis behind procrastination. •Managing energy, your circadian rhythm, and nature’s schedule. Stop procrastinating and do more in half the time. •How to effectively “singletask.” •How to prime your mental engine. •To-do lists, priority lists, don’t do lists, and all you need to keep you accountable and on track. Master your focus, master your life.

The Science of Sleep Sep 09 2021 Experts of every kind are queueing up to warn us that lack of sleep, or the wrong kind, will bring down a bewildering array of dire consequences. Heather Darwall-Smith's message in this ebook is simple: don't panic! Humans are biologically programmed to sleep, and by interrogating all the factors - sociological, physiological, neurological, and psychological - that might be impeding this innate instinct, each of us can work out the changes we can make

in our own lifestyles to allow ourselves to sleep naturally again. Understand and transform your sleep habits, one night at a time.

Proof Jul 19 2022 Named a Best Science Book of 2014 by Amazon, Wired, the Guardian, and NBC Winner of the 2014 Gourmand Award for Best Spirits Book in the United States Finalist for the 2015 PEN/E. O. Wilson Literary Science Writing Award "Lively . . . [Rogers's] descriptions of the science behind familiar drinks exert a seductive pull." -- New York Times Humans have been perfecting alcohol production for ten thousand years, but scientists are just starting to distill the chemical reactions behind the perfect buzz. In a spirited tour across continents and cultures, Adam Rogers takes us from bourbon country to the world's top gene-sequencing labs, introducing us to the bars, barflies, and evolving science at the heart of boozy technology. He chases the physics, biology, chemistry, and metallurgy that produce alcohol, and the psychology and neurobiology that make us want it. If you've ever wondered how your drink arrived in your glass, or what it will do to you, Proof makes an unparalleled drinking companion. "Rogers's book has much the same effect as a good drink. You get a warm sensation, you want to engage with the wider world, and you feel smarter than you probably are. Above all, it makes you understand how deeply human it is to take a drink." -- Wall Street Journal Adam Rogers is the articles editor at Wired, where his feature story "The Angels' Share" won the 2011 AAAS Kavli Science Journalism Award. Before Wired, he was a Knight Science Journalism Fellow at MIT and a writer covering science and technology for Newsweek. He lives in Berkeley, California.

The ArcGIS Book Feb 20 2020 This is a hands-on book about ArcGIS that you work with as much as read. By the end, using Learn ArcGIS lessons, you'll be able to say you made a story map, conducted geographic analysis, edited geographic data, worked in a 3D web scene, built a 3D model of Venice, and more.

The Science of Being Angry Jan 21 2020 Eleven-year-old Joey

navigates family, friendships, and her first crush, while looking for answers to why she feels so angry sometimes and by searching for the donor her moms chose.

The Science of Yoga Aug 28 2020 The Science of Yoga draws on a hidden wealth of science, history, and surprising facts to cut through the fog that surrounds contemporary yoga and to show - for the first time - what is uplifting and beneficial and what is delusional, flaky, and dangerous. At heart, it illuminates the risks and rewards. The book takes the reader on a whirlwind tour of undiscovered yoga that goes from old libraries in Calcutta to the world capitals of medical research, from little-known archives to spotless laboratories, from sweaty yoga classes with master teachers to the cosy offices of yoga healers. In the process, it shatters myths, lays out unexpected benefits, and offers a compelling vision of how to improve the discipline.

The Science Book Jan 25 2023 Discover 80 trail-blazing scientific ideas, which underpin our modern world, giving us everything from antibiotics to gene therapy, electricity to space rockets and batteries to smart phones. What is string theory or black holes? And who discovered gravity and radiation? The Science Book presents the fascinating story behind these and other of the world's most important concepts in maths, chemistry, physics and biology in plain English, with easy to grasp "mind maps" and eye-catching artworks. Albert Einstein once quoted Isaac Newton: "If I have seen further than others, it is by standing on the shoulders of giants." Follow context panels in The Science Book to trace how one scientist's ideas informed the next. See, for example, how Alan Turing's "universal computing machine" in the 1940s led to smart phones, or how Carl Linnaeus's classifications led to Darwin's theory of evolution, the sequencing of the human genome and lifesaving gene therapies. Part of the popular Big Ideas series, The Science Book is the perfect way to explore this fascinating subject. Series Overview: Big Ideas Simply Explained series uses creative design and innovative graphics along with

straightforward and engaging writing to make complex subjects easier to understand. With over 7 million copies worldwide sold to date, these award-winning books provide just the information needed for students, families, or anyone interested in concise, thought-provoking refreshers on a single subject.

***The Science of Avatar* Oct 22 2022 Audiences around the world have been enchanted by James Cameron's visionary *Avatar*, with its glimpse of the Na'vi on the marvelous world of Pandora. But the movie is not entirely a fantasy; there is a scientific rationale for much of what we saw on the screen, from the possibility of travel to other worlds, to the life forms seen on screen and the ecological and cybernetic concepts that underpin the 'neural networks' in which the Na'vi and their sacred trees are joined, as well as to the mind-linking to the avatars themselves. From popular science journalist and acclaimed science fiction author Stephen Baxter, *The Science of Avatar* is a guide to the rigorous fact behind the fiction. It will enhance the readers' enjoyment of the movie experience by drawing them further into its imagined world.**

***Science of Running* May 25 2020 Discover the hard science that will help you run faster, endure for longer, and avoid injury. Analyze your running style and learn how to enhance your gait for optimum efficiency and safety. Transform your performance with exercises targeting strength, flexibility, and recovery - each exercise annotated to reveal the muscle mechanics so you know you're getting it right. Understand the science behind your body's energy systems and how to train to maximize energy storage and conversion. Follow training and exercise programs tailored to different abilities and distances, from 5K to marathon. Whether you are new to running or an experienced runner, this book will help you achieve your goals and stay injury-free.**

The Science of Health Disparities Research* Jun 18 2022 Integrates the various disciplines of the science of health disparities in one comprehensive volume *The Science of Health

Disparities Research is an indispensable source of up-to-date information on clinical and translational health disparities science. Building upon the advances in health disparities research over the past decade, this authoritative volume informs policies and practices addressing the diseases, disorders, and gaps in health outcomes that are more prevalent in minority populations and socially disadvantaged communities. Contributions by recognized scholars and leaders in the field—featuring contemporary research, conceptual models, and a broad range of scientific perspectives—provide an interdisciplinary approach to reducing inequalities in population health, encouraging community engagement in the research process, and promoting social justice. In-depth chapters help readers better understand the specifics of minority health and health disparities while demonstrating the importance of advancing theory, refining measurement, improving investigative methods, and diversifying scientific research. In 26 chapters, the book examines topics including the etiology of health disparities research, the determinants of population health, research ethics, and research in African American, Asians, Latino, American Indian, and other vulnerable populations. Providing a unified framework on the principles and applications of the science of health disparities research, this important volume: Defines the field of health disparities science and suggests new directions in scholarship and research Explains basic definitions, principles, and concepts for identifying, understanding and addressing health disparities Provides guidance on both conducting health disparities research and translating the results Examines how social, historical and contemporary injustices may influence the health of racial and ethnic minorities Illustrates the increasing national and global importance of addressing health disparities Discusses population health training, capacity-building, and the transdisciplinary tools needed to advance health equity A significant contribution to the field, The Science of Health

Disparities Research is an essential resource for students and basic and clinical researchers in genetics, population genetics, and public health, health care policymakers, and epidemiologists, medical students, and clinicians, particularly those working with minority, vulnerable, or underserved populations.

The Science of Middle-earth Nov 30 2020 The surprising and illuminating look at how Tolkien's love of science and natural history shaped the creation of his Middle Earth, from its flora and fauna to its landscapes. The world J.R.R. Tolkien created is one of the most beloved in all of literature, and continues to capture hearts and imaginations around the world. From Oxford to ComiCon, the Middle Earth is analyzed and interpreted through a multitude of perspectives. But one essential facet of Tolkien and his Middle Earth has been overlooked: science. This great writer, creator of worlds and unforgettable character, and inventor of language was also a scientific autodidact, with an innate interest and grasp of botany, paleontologist and geologist, with additional passions for archeology and chemistry. Tolkien was an acute observer of flora and fauna and mined the minds of his scientific friends about ocean currents and volcanoes. It is these layers science that give his imaginary universe—and the creatures and characters that inhabit it—such concreteness. Within this gorgeously illustrated edition, a range of scientists—from astrophysicists to physicians, botanists to volcanologists—explore Tolkien's novels, poems, and letters to reveal their fascinating scientific roots. A rewarding combination of literary exploration and scientific discovery, The Science of Middle Earth reveals the hidden meaning of the Ring's corruption, why Hobbits have big feet, the origins of the Dwarves, the animals which inspired the dragons, and even whether or not an Ent is possible. Enhanced by superb original drawings, this transportive work will delight both Tolkien fans and science lovers and inspire us to view both Middle Earth—and our own world—with fresh eyes.

The Science of the Sacred Jan 13 2022 Indigenous naturopathic doctor Nicole Redvers pairs evidence-based research with traditional healing modalities, addressing modern health problems and medical processes Modern medical science has finally caught up to what traditional healing systems have known for centuries. Many traditional healing techniques and medicines are often assumed to be archaic, outdated, or unscientific compared to modern Western medicine. Nicole Redvers, a naturopathic physician and member of the Deninu K'ue First Nation, analyzes modern Western medical practices using evidence-informed Indigenous healing practices and traditions from around the world--from sweat lodges and fermented foods to Ayurvedic doshas and meditation. Organized around various sciences, such as physics, genetics, and microbiology, the book explains the connection between traditional medicine and current research around epigenetics and quantum physics, for example, and includes over 600 citations. Redvers, who has traveled and worked with Indigenous groups around the world, shares the knowledge and teachings of health and wellness that have been passed down through the generations, tying this knowledge with current scientific advances. Knowing that the science backs up the traditional practice allows us to have earlier and more specific interventions that integrate age-old techniques with the advances in modern medicine and technology.

The Science of Science Feb 26 2023 This is the first comprehensive overview of the exciting field of the 'science of science'. With anecdotes and detailed, easy-to-follow explanations of the research, this book is accessible to all scientists, policy makers, and administrators with an interest in the wider scientific enterprise.

The Science of Diversity May 05 2021 The Science of Diversity uses a multidisciplinary approach to excavate the theories, principles, and paradigms that illuminate our understanding of the issues surrounding human diversity, social equality, and

justice. The book brings these to the surface holistically, examining diversity at the individual, interpersonal, and international levels. Shedding light on why diversity programs fail, the book provides tools to understand how biases develop and influence our relationships and interactions with others.

The Science of Science Policy Oct 10 2021 Basic scientific research and technological development have had an enormous impact on innovation, economic growth, and social well-being. Yet science policy debates have long been dominated by advocates for particular scientific fields or missions. In the absence of a deeper understanding of the changing framework in which innovation occurs, policymakers cannot predict how best to make and manage investments to exploit our most promising and important opportunities. Since 2005, a science of science policy has developed rapidly in response to policymakers' increased demands for better tools and the social sciences' capacity to provide them. The Science of Science Policy: A Handbook brings together some of the best and brightest minds working in science policy to explore the foundations of an evidence-based platform for the field. The contributions in this book provide an overview of the current state of the science of science policy from three angles: theoretical, empirical, and policy in practice. They offer perspectives from the broader social science, behavioral science, and policy communities on the fascinating challenges and prospects in this evolving arena. Drawing on domestic and international experiences, the text delivers insights about the critical questions that create a demand for a science of science policy.

The Science of Crime Scenes Nov 18 2019 The Science of Crime Scenes, Second Edition offers a science-based approach to crime scenes, emphasizing that understanding is more important than simply knowing. Without sacrificing technical details, the book adds significantly to the philosophy and theory of crime scene science. This new edition addresses the science behind the

scenes and demonstrates the latest methods and technologies with updated figures and images. It covers the philosophy of the crime scene, the personnel involved at a scene (including the media), the detection of criminal traces and their reconstruction, and special crime scenes, such as mass disasters and terroristic events. Written by an international trio of authors with decades of crime scene experience, this book is the next generation of crime scene textbooks. This volume will serve both as a textbook for forensic programs, and as an excellent reference for forensic practitioners and crime scene technicians with science backgrounds. Includes in-depth coverage of disasters and mass murder, terror crime scenes and CBRN (Chemical, biological, radioactive and nuclear) – topics not covered in any other text Includes an instructor site with lecture slides, images and links to resources for teaching and training

The Science of Why Jul 07 2021 In this groundbreaking book, author David Forbes explains human motivation and provides ways that marketers can effectively reach the consumer. The book uses decades of psychology research and the author's own tool, the Forbes Matrix that identifies, organizes, and explains the nine core motivations.

The Science of Can and Can't Jan 01 2021 A luminous guide to how the radical new science of counterfactuals can reveal that the scope of the universe is greater, and more beautiful, than we ever imagined There is a vast class of things that science has so far almost entirely neglected. They are central to the understanding of physical reality both at an everyday level and at the level of the most fundamental phenomena in physics, yet have traditionally been assumed to be impossible to incorporate into fundamental scientific explanations. They are facts not about what is (the actual) but about what could be (counterfactuals). According to physicist Chiara Marletto, laws about things being possible or impossible may generate an alternative way of providing explanations. This fascinating, far-reaching approach holds

promise for revolutionizing the way fundamental physics is formulated and for providing essential tools to face existing technological challenges--from delivering the next generation of information-processing devices beyond the universal quantum computer to designing AIs. Each chapter in the book delineates how an existing vexed open problem in science can be solved by this radically different approach and it is augmented by short fictional stories that explicate the main point of the chapter. As Marletto demonstrates, contemplating what is possible can give us a more complete and hopeful picture of the physical world.

The Science of Mom Dec 24 2022 The Science of Mom blogger makes sense of research studies for new mothers. It seems like every time a new mother turns on her computer, radio, or television, she is greeted with news of yet another scientific study about infancy. Ignoring good information isn't the right course, but just how does one tell the difference between solid studies, preliminary results, and snake oil? In this friendly guide through the science of infancy, Science of Mom blogger and PhD scientist Alice Callahan explains how non-scientist mothers can learn the difference between hype and evidence. Readers of Alice's blog have come to trust her balanced approach, which explains the science that lies behind headlines. The Science of Mom is a fascinating, eye-opening, and extremely informative exploration of the topics that generate discussion and debate in the media and among parents. From breastfeeding to vaccines to sleep, Alice's advice will help you make smart choices so that you can relax and enjoy your baby.

The Science of Boys Apr 16 2022 A science nerd, Emma Sakamoto puts her skills to good use by putting together a manual for the girls at Minato High.

The Science of Education Aug 20 2022

The Science of Cheese Apr 23 2020 Describes the science of cheese making, from chemistry to biology, in a lively way that is readable for both the food scientist and the artisanal hobbyist.

The Science of Marvel Aug 08 2021 Science meets fantasy in this behind-the-scenes look at the Marvel Cinematic Universe—now you can experience the magic of the movies, and learn how to replicate it in real-life. The Marvel Cinematic Universe is filled with extraordinary humans and abilities. There are teenaged geniuses swinging through the streets of New York, billionaires creating impenetrable armor in hidden caves, and aliens flying through wormholes to Earth. All of these characters seem to lie firmly in the realm of fantasy—but the technology behind them might not be as farfetched as you think... The Science of Marvel pulls back the curtain and reveals the secrets behind Marvel movie magic, and shows us how to recreate these comic book wonders in our everyday life. Using quantum physics, a little bit of mechanical engineering, and some out-of-the-box thinking, you'll be amazed to discover that it's possible to create a real-life Captain America, Incredible Hulk, or Black Panther. The perfect gift or collectible for Marvel fans everywhere, The Science of Marvel brings beloved movies and characters to life like never before.

The Science of Citizen Science Sep 21 2022 This open access book discusses how the involvement of citizens into scientific endeavors is expected to contribute to solve the big challenges of our time, such as climate change and the loss of biodiversity, growing inequalities within and between societies, and the sustainability turn. The field of citizen science has been growing in recent decades. Many different stakeholders from scientists to citizens and from policy makers to environmental organisations have been involved in its practice. In addition, many scientists also study citizen science as a research approach and as a way for science and society to interact and collaborate. This book provides a representation of the practices as well as scientific and societal outcomes in different disciplines. It reflects the contribution of citizen science to societal development, education, or innovation and provides an overview of the field of actors as well as on tools and guidelines. It serves as an

introduction for anyone who wants to get involved in and learn more about the science of citizen science.

e-Learning and the Science of Instruction Oct 18 2019 The essential e-learning design manual, updated with the latest research, design principles, and examples e-Learning and the Science of Instruction is the ultimate handbook for evidence-based e-learning design. Since the first edition of this book, e-learning has grown to account for at least 40% of all training delivery media. However, digital courses often fail to reach their potential for learning effectiveness and efficiency. This guide provides research-based guidelines on how best to present content with text, graphics, and audio as well as the conditions under which those guidelines are most effective. This updated fourth edition describes the guidelines, psychology, and applications for ways to improve learning through personalization techniques, coherence, animations, and a new chapter on evidence-based game design. The chapter on the Cognitive Theory of Multimedia Learning introduces three forms of cognitive load which are revisited throughout each chapter as the psychological basis for chapter principles. A new chapter on engagement in learning lays the groundwork for in-depth reviews of how to leverage worked examples, practice, online collaboration, and learner control to optimize learning. The updated instructor's materials include a syllabus, assignments, storyboard projects, and test items that you can adapt to your own course schedule and students. Co-authored by the most productive instructional research scientist in the world, Dr. Richard E. Mayer, this book distills copious e-learning research into a practical manual for improving learning through optimal design and delivery. Get up to date on the latest e-learning research Adopt best practices for communicating information effectively Use evidence-based techniques to engage your learners Replace popular instructional ideas, such as learning styles with evidence-based guidelines Apply evidence-based

design techniques to optimize learning games e-Learning continues to grow as an alternative or adjunct to the classroom, and correspondingly, has become a focus among researchers in learning-related fields. New findings from research laboratories can inform the design and development of e-learning. However, much of this research published in technical journals is inaccessible to those who actually design e-learning material. By collecting the latest evidence into a single volume and translating the theoretical into the practical, e-Learning and the Science of Instruction has become an essential resource for consumers and designers of multimedia learning.

The Science of Interest May 17 2022 This exceptional volume analyzes the intricate roles interest plays in cognition, motivation and learning, and daily living, with a special focus on its development and maintenance across life domains. Leading experts discuss a spectrum of interest ranging from curiosity to obsession, and trace its functions in goal-setting, decision-making, self-regulation, and performance. New research refines the current knowledge on student interest in educational settings and the social contexts of interest, with insights into why interest levels change during engagement and in the long run. From these findings, contributors address ways to foster and nurture interest in the therapy room and the classroom, for optimum benefits throughout life. Among the topics covered: · Embedding interest within self-regulation. · Knowledge acquisition at the intersection of situational and individual interest. · The role of interest in motivation and engagement. · The two faces of passion. · Creative geniuses, polymaths, child prodigies, and autistic savants. · The promotion and development of interest. A robust guide to a fascinating area of study, The Science of Interest synthesizes the field's current knowledge of interest and indicates future directions. Its chapters contribute depth and rigor to this growing area of research, and will enhance the work of researchers in education, psychologists, social scientists, and public

policymakers.

The Science of Breaking Bad Jun 06 2021 All the science in Breaking Bad—from explosive experiments to acid-based evidence destruction—explained and analyzed for authenticity. Breaking Bad's (anti)hero Walter White (played by Emmy-winner Bryan Cranston) is a scientist, a high school chemistry teacher who displays a plaque that recognizes his “contributions to research awarded the Nobel Prize.” During the course of five seasons, Walt practices a lot of ad hoc chemistry—from experiments that explode to acid-based evidence destruction to an amazing repertoire of methodologies for illicit meth making. But how much of Walt's science is actually scientific? In The Science of “Breaking Bad,” Dave Trumbore and Donna Nelson explain, analyze, and evaluate the show's portrayal of science, from the pilot's opening credits to the final moments of the series finale. The intent is not, of course, to provide a how-to manual for wannabe meth moguls but to decode the show's most head-turning, jaw-dropping moments. Trumbore, a science and entertainment writer, and Nelson, a professor of chemistry and Breaking Bad's science advisor, are the perfect scientific tour guides. Trumbore and Nelson cover the show's portrayal of chemistry, biology, physics, and subdivisions of each area including toxicology and electromagnetism. They explain, among other things, Walt's DIY battery making; the dangers of Mylar balloons; the feasibility of using hydrofluoric acid to dissolve bodies; and the chemistry of methamphetamine itself. Nelson adds interesting behind-the-scenes anecdotes and describes her work with the show's creator and writers. Marius Stan, who played Bogdan on the show (and who is a PhD scientist himself) contributes a foreword. This is a book for every science buff who appreciated the show's scientific moments and every diehard Breaking Bad fan who wondered just how smart Walt really was.

The Science of Cooking Sep 28 2020 Get answers to all your cooking science questions, and cook tastier, more nutritious food

using fundamental principles, practical advice, and step-by-step techniques. Where does the heat come from in a chili pepper? Why is wild salmon darker than farmed? Does searing meat really "seal in" the juices? A good recipe goes a long way, but if you can master the science behind it, you'll be one step ahead. Using full-color images, stats and facts through infographics, and an engaging Q&A format to show you how to perfect your cooking, The Science of Cooking brings food science out of the lab and into your kitchen. Topics include meat and poultry, seafood, dairy, pulses and grains, fruits, vegetables, spices, herbs, baked goods, and more, making it perfect for perfecting everyday cooking as well as for special meals.

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