

Sync How Order Emerges From Chaos In The Universe

Information—Consciousness—Reality James B. Glattfelder.2019-04-10 This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

The Calculus of Friendship Steven Strogatz.2011-03-07 The Calculus of Friendship is the story of an extraordinary connection between a teacher and a student, as chronicled through more than thirty years of letters between them. What makes their relationship unique is that it is based almost entirely on a shared love of calculus. For them, calculus is more than a branch of mathematics; it is a game they love playing together, a constant when all else is in flux. The teacher goes from the prime of his career to retirement, competes in whitewater kayaking at the international level, and loses a son. The student matures from high school math whiz to Ivy League professor, suffers the sudden death of a parent, and blunders into a marriage destined to fail. Yet through it all they take refuge in the haven of calculus--until a day comes when calculus is no longer enough. Like calculus itself, The Calculus of Friendship is an exploration of change. It's about the transformation that takes place in a student's heart, as he and his teacher reverse roles, as they age, as they are buffeted by life itself. Written by a renowned teacher and communicator of mathematics, The Calculus of Friendship is warm, intimate, and deeply moving. The most inspiring ideas of calculus, differential equations, and chaos theory are explained through metaphors, images, and anecdotes in a way that all readers will find beautiful, and even poignant. Math enthusiasts, from high school students to professionals, will delight in the offbeat problems and lucid explanations in the letters. For anyone whose life has been changed by a mentor, The Calculus of Friendship will be an unforgettable journey.

Complexity Melanie Mitchell.2009-04-01 What enables individually simple insects like ants to act with such precision and purpose as a group? How do trillions of neurons produce something as extraordinarily complex as consciousness? In this remarkably clear and companionable book, leading complex systems scientist Melanie Mitchell provides an intimate tour of the sciences of complexity, a broad set of efforts that seek to explain how large-scale complex, organized, and adaptive behavior can emerge from simple interactions among myriad individuals. Based on her work at the Santa Fe Institute and drawing on its interdisciplinary strategies, Mitchell brings clarity to the workings of complexity across a broad range of biological, technological, and social phenomena, seeking out the general principles or laws that apply to all of them. Richly illustrated, Complexity: A Guided Tour--winner of the 2010 Phi Beta Kappa Book Award in Science--offers a wide-ranging overview of the ideas underlying complex systems science, the current research at the forefront of this field, and the prospects for its contribution to solving some of the most important scientific questions of our time.

The Life and Crimes of Hoodie Rosen Isaac Blum.2022-09-13 **LONGLISTED FOR THE NATIONAL BOOK AWARD! A WILLIAM C. MORRIS AWARD WINNER!** The Chosen meets Adam Silvera in this irreverent and timely story of worlds colliding in friendship, betrayal, and hatred. Hoodie Rosen's

life isn't that bad. Sure, his entire Orthodox Jewish community has just picked up and moved to the quiet, mostly non-Jewish town of Tregaron, but Hoodie's world hasn't changed that much. He's got basketball to play, studies to avoid, and a supermarket full of delicious kosher snacks to eat. The people of Tregaron aren't happy that so many Orthodox Jews are moving in at once, but that's not Hoodie's problem. That is, until he meets and falls for Anna-Marie Diaz-O'Leary—who happens to be the daughter of the obstinate mayor trying to keep Hoodie's community out of the town. And things only get more complicated when Tregaron is struck by a series of antisemitic crimes that quickly escalate to deadly violence. As his community turns on him for siding with the enemy, Hoodie finds himself caught between his first love and the only world he's ever known. Isaac Blum delivers a wry, witty debut novel about a deeply important and timely subject, in a story of hatred and betrayal—and the friendships we find in the most unexpected places. Praise for *The Life and Crimes of Hoodie Rosen*: "A deeply authentic story about the terror and glory of encountering the outside world without sacrificing who you are—and who you want to be. It's touching, tragic, and as Jewish as your Bubbe's cholent." -Gavriel Savit, New York Times bestselling author of *Anna and the Swallow Man* "Blum gives the common but often-dismissed spiritual journey of many teens the respect it deserves in this witty, profound look at cross-cultural friendship, courageous honesty, and how a willingness to truly see and love our neighbors can change an entire community." -Vesper Stamper, National Book Award-nominated author of *What the Night Sings* "A refreshingly human look at the day-to-day nuances of Orthodox Judaism and the terror of modern antisemitism. I laughed, I gasped, I craved kosher Starburst. Two thumbs up from this nice Jewish girl!" -Tyler Feder, Sydney Taylor Award-winning author of *Dancing at the Pity Party* "Bold, brave, and brutally honest, it holds a permanent piece of my heart." -Dahlia Adler, author of *Cool for the Summer* Isaac Blum has the rare talent of telling searing, visceral truths in a witty, funny, punchy way . . . *The Life and Crimes of Hoodie Rosen* is a vital voice in Jewish YA canon. -Katherine Locke, Sydney Taylor Honor author of *The Girl with the Red Balloon*

Mythic Imagination Today Terry Marks-Tarlow.2021-01-18 *Mythic Imagination Today* is an illustrated guide to the interpenetration of mythology and science throughout the ages. This monograph brings alive our collective need for story as a guide to the rules, roles, and relationships of everyday life.

Where Good Ideas Come From Steven Johnson.2010-10-05 A fascinating deep dive on innovation from the New York Times bestselling author of *How We Got To Now* and *Unexpected Life* The printing press, the pencil, the flush toilet, the battery--these are all great ideas. But where do they come from? What kind of environment breeds them? What sparks the flash of brilliance? How do we generate the breakthrough technologies that push forward our lives, our society, our culture? Steven Johnson's answers are revelatory as he identifies the seven key patterns behind genuine innovation, and traces them across time and disciplines. From Darwin and Freud to the halls of Google and Apple, Johnson investigates the innovation hubs throughout modern time and pulls out the approaches and commonalities that seem to appear at moments of originality.

Sync Steven Strogatz.2004-04-29 'SYNC' IS A STORY OF A DAZZLING KIND OF ORDER IN THE UNIVERSE, THE HARMONY THAT COMES FROM CYCLES IN SYNC. THE TENDENCY TO SYCHRONIZE IS ONE OF THE MOST FAR- REACHING DRIVES IN ALL OF NATURE. IT EXTENDS FROM PEOPLE TO PLANETS, FROM ANIMALS TO ATOMS. IN 'SYNC' PROFESSOR STEVEN STROGATZ CONSIDERS A RANGE OF APPLICATIONS - HUMAN SLEEP AND CIRCADIAN RHYTHMS, MENSTRUAL SYNCHRONY, INSECT OUTBREAKS, SUPERCONDUCTORS, LASERS, SECRET CODES, HEART ARRHYTHMIAS AND FADS - CONNECTING ALL TRHOUGH AN EXPLORATION OF THE SAME MATHEMATICAL THEME: SELF- ORGANISATION, OR THE SPONTANEOUS EMERGENCE OF ORDER OUT OF CHAOS. FOCUSED ENOUGH TO PRESENT A COHERENT WORLD UNTO THEMSELVES, STROGATZ'S CHOSEN TOPICS TOUCH ON SEVERAL OF THE HOTTEST DIRECTIONS IN CONTEMPORARY SCIENCE.

Lookout Cartridge Joseph McElroy.2003-11-25 With *Lookout Cartridge*, Joseph McElroy established a reputation as one of contemporary fiction's

foremost innovators and deft observers into the fissures of modern society. It is a novel of dazzling intricacy, absorbing suspense, and the highest ambition: to redeem the great claim of paranoia on the American psyche. In trying to figure out just who is so threatened by an innocent piece of cinema verité? filmed in collaboration with a friend, Cartwright finds himself at the heart of a mystery stretching from New York and London to Corsica and Stonehenge. With each new fact he gathers, both the intricacy of the syndicate arrayed against him and what his search will cost him become alarmingly clear.

The Recognitions William Gaddis.2020-11-24 A postmodern masterpiece about fraud and forgery by one of the most distinctive, accomplished novelists of the last century. The Recognitions is a sweeping depiction of a world in which everything that anyone recognizes as beautiful or true or good emerges as anything but: our world. The book is a masquerade, moving from New England to New York to Madrid, from the art world to the underworld, but it centers on the story of Wyatt Gwyon, the son of a New England minister, who forsakes religion to devote himself to painting, only to despair of his inspiration. In expiation, he will paint nothing but flawless copies of his revered old masters—copies, however, that find their way into the hands of a sinister financial wizard by the name of Recktall Brown, who of course sells them as the real thing. Dismissed uncomprehendingly by reviewers on publication in 1955 and ignored by the literary world for decades after, The Recognitions is now established as one of the great American novels, immensely ambitious and entirely unique, a book of wild, Boschian inspiration and outrageous comedy that is also profoundly serious and sad.

The Myth of Mirror Neurons: The Real Neuroscience of Communication and Cognition Gregory Hickok.2014-08-18 An essential reconsideration of one of the most far-reaching theories in modern neuroscience and psychology. In 1992, a group of neuroscientists from Parma, Italy, reported a new class of brain cells discovered in the motor cortex of the macaque monkey. These cells, later dubbed mirror neurons, responded equally well during the monkey's own motor actions, such as grabbing an object, and while the monkey watched someone else perform similar motor actions. Researchers speculated that the neurons allowed the monkey to understand others by simulating their actions in its own brain. Mirror neurons soon jumped species and took human neuroscience and psychology by storm. In the late 1990s theorists showed how the cells provided an elegantly simple new way to explain the evolution of language, the development of human empathy, and the neural foundation of autism. In the years that followed, a stream of scientific studies implicated mirror neurons in everything from schizophrenia and drug abuse to sexual orientation and contagious yawning. In The Myth of Mirror Neurons, neuroscientist Gregory Hickok reexamines the mirror neuron story and finds that it is built on a tenuous foundation—a pair of codependent assumptions about mirror neuron activity and human understanding. Drawing on a broad range of observations from work on animal behavior, modern neuroimaging, neurological disorders, and more, Hickok argues that the foundational assumptions fall flat in light of the facts. He then explores alternative explanations of mirror neuron function while illuminating crucial questions about human cognition and brain function: Why do humans imitate so prodigiously? How different are the left and right hemispheres of the brain? Why do we have two visual systems? Do we need to be able to talk to understand speech? What's going wrong in autism? Can humans read minds? The Myth of Mirror Neurons not only delivers an instructive tale about the course of scientific progress—from discovery to theory to revision—but also provides deep insights into the organization and function of the human brain and the nature of communication and cognition.

Sync Steven H. Strogatz.2004-04-14 The tendency to synchronize may be the most mysterious and pervasive drive in all of nature. It has intrigued some of the most brilliant minds of the 20th century, including Albert Einstein, Richard Feynman, Norbert Wiener, Brian Josephson, and Arthur Winfree. At once elegant and riveting, Sync tells the story of the dawn of a new science. Steven Strogatz, a leading mathematician in the fields of chaos and complexity theory, explains how enormous systems can synchronize themselves, from the electrons in a superconductor to the pacemaker

cells in our hearts. He shows that although these phenomena might seem unrelated on the surface, at a deeper level there is a connection, forged by the unifying power of mathematics.

The Geometry of Biological Time Arthur T. Winfree. 2013-06-29 As I review these pages, the last of them written in Summer 1978, some retrospective thoughts come to mind which put the whole business into better perspective for me and might aid the prospective reader in choosing how to approach this volume. The most conspicuous thought in my mind at present is the diversity of wholly independent explorations that came upon phase singularities, in one guise or another, during the past decade. My efforts to gather the published literature during the last phases of actually writing a whole book about them were almost equally divided between libraries of Biology, Chemistry, Engineering, Mathematics, Medicine, and Physics. A lot of what I call gathering was done somewhat in anticipation in the form of conjecture, query, and prediction based on analogy between developments in different fields. The consequence throughout 1979 was that our long-suffering publisher repeatedly had to replace such material by citation of unexpected flurries of papers giving substantive demonstration. I trust that the authors of these many excellent reports, and especially of those I only found too late, will forgive the brevity of allusion I felt compelled to observe in these substitutions. A residue of loose ends is largely collected in the index under QUERIES. It is clear to me already that the materials I began to gather several years ago represented only the first flickering of what turns out to be a substantial conflagration.

Playing with Infinity Rózsa Péter. 2012-04-04 Popular account ranges from counting to mathematical logic and covers many concepts related to infinity: graphic representation of functions; pairings, other combinations; prime numbers; logarithms, circular functions; more. 216 illustrations.

Faster James Gleick. 2000-09-05 From the bestselling, National Book Award-nominated author of *Genius and Chaos*, a bracing new work about the accelerating pace of change in today's world. Most of us suffer some degree of hurry sickness, a malady that has launched us into the epoch of the nanosecond, a need-everything-yesterday sphere dominated by cell phones, computers, faxes, and remote controls. Yet for all the hours, minutes, and even seconds being saved, we're still filling our days to the point that we have no time for such basic human activities as eating, sex, and relating to our families. Written with fresh insight and thorough research, *Faster* is a wise and witty look at a harried world not likely to slow down anytime soon.

Infinite Powers Steven Strogatz. 2019 From preeminent math personality and author of *The Joy of x*, a brilliant and endlessly appealing explanation of calculus - how it works and why it makes our lives immeasurably better. Without calculus, we wouldn't have cell phones, TV, GPS, or ultrasound. We wouldn't have unraveled DNA or discovered Neptune or figured out how to put 5,000 songs in your pocket. Though many of us were scared away from this essential, engrossing subject in high school and college, Steven Strogatz's brilliantly creative, down-to-earth history shows that calculus is not about complexity; it's about simplicity. It harnesses an unreal number--infinity--to tackle real-world problems, breaking them down into easier ones and then reassembling the answers into solutions that feel miraculous. *Infinite Powers* recounts how calculus tantalized and thrilled its inventors, starting with its first glimmers in ancient Greece and bringing us right up to the discovery of gravitational waves (a phenomenon predicted by calculus). Strogatz reveals how this form of math rose to the challenges of each age: how to determine the area of a circle with only sand and a stick; how to explain why Mars goes backwards sometimes; how to make electricity with magnets; how to ensure your rocket doesn't miss the moon; how to turn the tide in the fight against AIDS. As Strogatz proves, calculus is truly the language of the universe. By unveiling the principles of that language, *Infinite Powers* makes us marvel at the world anew.

Complexity John Henry Holland. 2014 In this very short introduction, John Holland presents an introduction to the science of complexity. Using examples from biology and economics, he shows how complexity science models the behaviour of complex systems.

How to Walk on Water and Climb up Walls David Hu.2020-03-03 Insects walk on water, snakes slither, and fish swim. Animals move with astounding grace, speed, and versatility: how do they do it, and what can we learn from them? In *How to Walk on Water and Climb up Walls*, David Hu takes readers on an accessible, wondrous journey into the world of animal motion. From basement labs at MIT to the rain forests of Panama, Hu shows how animals have adapted and evolved to traverse their environments, taking advantage of physical laws with results that are startling and ingenious. In turn, the latest discoveries about animal mechanics are inspiring scientists to invent robots and devices that move with similar elegance and efficiency. Hu follows scientists as they investigate a multitude of animal movements, from the undulations of sandfish and the way that dogs shake off water in fractions of a second to the seemingly crash-resistant characteristics of insect flight. Not limiting his exploration to individual organisms, Hu describes the ways animals enact swarm intelligence, such as when army ants cooperate and link their bodies to create bridges that span ravines. He also looks at what scientists learn from nature's unexpected feats--such as snakes that fly, mosquitoes that survive rainstorms, and dead fish that swim upstream. As researchers better understand such issues as energy, flexibility, and water repellency in animal movement, they are applying this knowledge to the development of cutting-edge technology. Integrating biology, engineering, physics, and robotics, [this book] demystifies the remarkable mechanics behind animal locomotion--Page 4 of cover.

Rhythms of the Brain Gyorgy Buzsaki.2006-08-03 This book provides eloquent support for the idea that spontaneous neuron activity, far from being mere noise, is actually the source of our cognitive abilities. In a sequence of cycles, György Buzsáki guides the reader from the physics of oscillations through neuronal assembly organization to complex cognitive processing and memory storage. His clear, fluid writing--accessible to any reader with some scientific knowledge--is supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist. The coherent view of a single author who has been at the forefront of research in this exciting field, this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain.

Nonlinear Dynamics and Chaos Steven H. Strogatz.2018-05-04 This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

Advanced Calculus Explored .2019-11-29

Biotensegrity Graham Melvin Scarr.2019-03-25 The emerging science of biotensegrity provides a fresh context for rethinking our understanding of human movement, but its complexities can be formidable. *Biotensegrity: The Structural Basis of Life*, Second edition - now with full color illustrations throughout - explores and explains the concept of biotensegrity and provides an understanding and appreciation of anatomy and physiology in the light of the latest research findings. The reader learns that biotensegrity is an evolving science which gives researchers, teachers, and practitioners across a wide range of specialisms, including bodyworkers and movement teachers, a deeper understanding of the structure and function of the human body. They are then able to develop clinical practice and skills in light of this understanding, leading to more effective therapeutic approaches, with the aim of improved client outcomes. The second edition provides expanded coverage of the developmental and therapeutic aspects of biotensegrity. Coverage now includes: A more thorough look at life's internal processes Closed kinematic chains as the new biomechanics Embryological development as an evolutionary process The human body as a constantly evolving system based on a set of unchanging principles Emergence, heterarchies, soft-matter and small-world networks A deeper look at what constitutes the therapeutic process

The Joy of X Steven Henry Strogatz.2012 A comprehensive tour of leading mathematical ideas by an award-winning professor and columnist for the New York Times Opinionator series demonstrates how math intersects with philosophy, science and other aspects of everyday life. By the author of *The Calculus of Friendship*. 50,000 first printing.

End Times Bryan Walsh.2019-08-27 In this history of extinction and existential risk, a Newsweek and Bloomberg popular science and investigative journalist examines our most dangerous mistakes -- and explores how we can protect and future-proof our civilization. *End Times* is a compelling work of skilled reportage that peels back the layers of complexity around the unthinkable -- and inevitable -- end of humankind. From asteroids and artificial intelligence to volcanic supereruption to nuclear war, veteran science reporter and TIME editor Bryan Walsh provides a stunning panoramic view of the most catastrophic threats to the human race. In *End Times*, Walsh examines threats that emerge from nature and those of our own making: asteroids, supervolcanoes, nuclear war, climate change, disease pandemics, biotechnology, artificial intelligence, and extraterrestrial intelligence. Walsh details the true probability of these world-ending catastrophes, the impact on our lives were they to happen, and the best strategies for saving ourselves, all pulled from his rigorous and deeply thoughtful reporting and research. Walsh goes into the room with the men and women whose job it is to imagine the unimaginable. He includes interviews with those on the front lines of prevention, actively working to head off existential threats in biotechnology labs and government hubs. Guided by Walsh's evocative, page-turning prose, we follow scientific stars like the asteroid hunters at NASA and the disease detectives on the trail of the next killer virus. Walsh explores the danger of apocalypse in all forms. In the end, it will be the depth of our knowledge, the height of our imagination, and our sheer will to survive that will decide the future.

Out Of Control Kevin Kelly.2009-04-30 *Out of Control* chronicles the dawn of a new era in which the machines and systems that drive our economy are so complex and autonomous as to be indistinguishable from living things.

Gait Optimization for Multi-legged Walking Robots, with Application to a Lunar Hexapod Daniel Chávez-Clemente.2011 The interest in using legged robots for a variety of terrestrial and space applications has grown steadily since the 1960s. At the present time, a large fraction of these robots relies on electric motors at the joints to achieve mobility. The load distributions inherent to walking, coupled with design constraints, can cause the motors to operate near their maximum torque capabilities or even reach saturation. This is especially true in applications like space exploration, where critical mass and power constraints limit the size of the actuators. Consequently, these robots can benefit greatly from motion optimization algorithms that guarantee successful walking with maximum margin to saturation. Previous gait optimization techniques have emphasized minimization of power requirements, but have not addressed the problem of saturation directly. This dissertation describes gait optimization techniques specifically designed to enable operation as far as possible from saturation during walking. The benefits include increasing the payload mass, preserving actuation capabilities to react to unforeseen events, preventing damage to hardware due to excessive loading, and reducing the size of the motors. The techniques developed in this work follow the approach of optimizing a reference gait one move at a time. As a result, they are applicable to a large variety of purpose-specific gaits, as well as to the more general problem of single pose optimization for multi-limbed walking and climbing robots. The first part of this work explores a zero-interaction technique that was formulated to increase the margin to saturation through optimal displacements of the robot's body in 3D space. Zero-interaction occurs when the robot applies forces only to sustain its weight, without squeezing the ground. The optimization presented here produces a swaying motion of the body while preserving the original footfall locations. Optimal displacements are found by solving a nonlinear optimization problem using sequential quadratic programming (SQP). Improvements of over 20% in the margin to saturation throughout the gait were achieved with this approach in simulation and experiments. The zero-interaction technique is the safest in the absence of precise knowledge of the contact mechanical properties and friction coefficients. The second

part of the dissertation presents a technique that uses the null space of contact forces to achieve greater saturation margins. Interaction forces can significantly contribute to saturation prevention by redirecting the net contact force relative to critical joints. A method to obtain the optimal distribution of forces for a given pose via linear programming (LP) is presented. This can be applied directly to the reference gait, or combined with swaying motion. Improvements of up to 60% were observed in simulation by combining the null space with sway. The zero-interaction technique was implemented and validated on the All Terrain Hex-Limbed Extra-Terrestrial Explorer (ATHLETE), a hexapod robot developed by NASA for the transport of heavy cargo on the surface of the moon. Experiments with ATHLETE were conducted at the Jet Propulsion Laboratory in Pasadena, California, confirming the benefits predicted in simulation. The results of these experiments are also presented and discussed in this dissertation.

Pattern Formation in Continuous and Coupled Systems Martin Golubitsky, Dan Luss, Steven H. Strogatz. 1999-06-22 Systems that generate new types of pattern such as discrete coupled systems, systems with global coupling, and combustion experiments were stressed, as were new types of pattern. -BOOK JACKET.

Deep Simplicity John Gribbin. 2009-08-27 'Gribbin takes us through the basics with his customary talent for accessibility and clarity' Sunday Times The world around us can be a complex, confusing place. Earthquakes happen without warning, stock markets fluctuate, weather forecasters seldom seem to get it right - even other people continue to baffle us. How do we make sense of it all? In fact, John Gribbin reveals, our seemingly random universe is actually built on simple laws of cause and effect that can explain why, for example, just one vehicle braking can cause a traffic jam; why wild storms result from a slight atmospheric change; even how we evolved from the most basic materials. Like a zen painting, a fractal image or the pattern on a butterfly's wings, simple elements form the bedrock of a sophisticated whole. Synthesizing chaos and complexity theory for the perplexed, *Deep Simplicity* brilliantly illuminates the harmony underlying our existence.

Theory from the South Jean Comaroff, John L. Comaroff. 2015-11-17 As nation-states in the Northern Hemisphere experience economic crisis, political corruption and racial tension, it seems as though they might be 'evolving' into the kind of societies normally associated with the 'Global South'.

Anthropologists Jean and John Comaroff draw on their long experience of living in Africa to address a range of familiar themes - democracy, national borders, labour and capital and multiculturalism. They consider how we might understand these issues by using theory developed in the Global South. Challenging our ideas about 'developed' and 'developing' nations, *Theory from the South* provides new insights into key problems of our time.

Zero Charles Seife. 2019-11-28 A NEW YORK TIMES NOTABLE BOOK The Babylonians invented it, the Greeks banned it, the Hindus worshipped it, and the Christian Church used it to fend off heretics. Today it's a timebomb ticking in the heart of astrophysics. For zero, infinity's twin, is not like other numbers. It is both nothing and everything. Zero has pitted East against West and faith against reason, and its intransigence persists in the dark core of a black hole and the brilliant flash of the Big Bang. Today, zero lies at the heart of one of the biggest scientific controversies of all time: the quest for a theory of everything. Within the concept of zero lies a philosophical and scientific history of humanity. Charles Seife's elegant and witty account takes us from Aristotle to superstring theory by way of Egyptian geometry, Kabbalism, Einstein, the Chandrasekhar limit and Stephen Hawking. Covering centuries of thought, it is a concise tour of a world of ideas, bound up in the simple notion of nothing.

The Skeptic's Dictionary Robert Carroll. 2004-04-28 A wealth of evidence for doubters and disbelievers Whether it's the latest shark cartilage scam, or some new 'repressed memory' idiocy that besets you, I suggest you carry a copy of this dictionary at all times, or at least have it within reach as first aid for psychic attacks. We need all the help we can get. -James Randi, President, James Randi Educational Foundation, randi.org From alternative medicine, aliens, and psychics to the farthest shores of science and beyond, Robert Carroll presents a fascinating look at some of humanity's most strange and wonderful ideas. Refreshing and witty, both believers and unbelievers will find this compendium complete and

captivating. Buy this book and feed your head! -Clifford Pickover, author of *The Stars of Heaven* and *Dreaming the Future* A refreshing compendium of clear thinking, a welcome and potent antidote to the reams of books on the supernatural and pseudoscientific. -John Allen Paulos, author of *Innumeracy* and *A Mathematician Reads the Newspaper* This book covers an amazing range of topics and can protect many people from being scammed. -Stephen Barrett, M.D., quackwatch.org Featuring close to 400 definitions, arguments, and essays on topics ranging from acupuncture to zombies, *The Skeptic's Dictionary* is a lively, commonsense trove of detailed information on all things supernatural, occult, paranormal, and pseudoscientific. It covers such categories as alternative medicine; cryptozoology; extraterrestrials and UFOs; frauds and hoaxes; junk science; logic and perception; New Age energy; and the psychic. For the open-minded seeker, the soft or hardened skeptic, and the believing doubter, this book offers a remarkable range of information that puts to the test the best arguments of true believers.

The Mathematical Mechanic Mark Levi.2009-07-06 Everybody knows that mathematics is indispensable to physics--imagine where we'd be today if Einstein and Newton didn't have the math to back up their ideas. But how many people realize that physics can be used to produce many astonishing and strikingly elegant solutions in mathematics? Mark Levi shows how in this delightful book, treating readers to a host of entertaining problems and mind-bending puzzlers that will amuse and inspire their inner physicist. Levi turns math and physics upside down, revealing how physics can simplify proofs and lead to quicker solutions and new theorems, and how physical solutions can illustrate why results are true in ways lengthy mathematical calculations never can. Did you know it's possible to derive the Pythagorean theorem by spinning a fish tank filled with water? Or that soap film holds the key to determining the cheapest container for a given volume? Or that the line of best fit for a data set can be found using a mechanical contraption made from a rod and springs? Levi demonstrates how to use physical intuition to solve these and other fascinating math problems. More than half the problems can be tackled by anyone with precalculus and basic geometry, while the more challenging problems require some calculus. This one-of-a-kind book explains physics and math concepts where needed, and includes an informative appendix of physical principles. *The Mathematical Mechanic* will appeal to anyone interested in the little-known connections between mathematics and physics and how both endeavors relate to the world around us.

The Night Watch Sarah Waters.2016-07-28 I thought everything would change, after the war. And now, no one even mentions it. It is as if we all got together in private and said whatever you do don't mention that, like it never happened. It's the late 1940s. Calm has returned to London and five people are recovering from the chaos of war. In scenes set in a quiet dating agency, a bombed-out church and a prison cell, the stories of these five lives begin to intertwine and we uncover the desire and regret that has bound them together. Sarah Waters's story of illicit love and everyday heroism takes us from a dazed and shattered post-war Britain back into the heart of the Blitz, towards the secrets that are hidden there. Olivier-nominated playwright Hattie Naylor has created a thrilling and theatrically inventive adaptation of a great modern novel. The stage adaptation of *The Night Watch* was premiered at the Royal Exchange Theatre, Manchester, on 16 May 2016.

Chaotic, Fractional, and Complex Dynamics: New Insights and Perspectives Mark Edelman, Elbert E. N. Macau, Miguel A. F. Sanjuan.2017-11-17 The book presents nonlinear, chaotic and fractional dynamics, complex systems and networks, together with cutting-edge research on related topics. The fifteen chapters - written by leading scientists working in the areas of nonlinear, chaotic, and fractional dynamics, as well as complex systems and networks - offer an extensive overview of cutting-edge research on a range of topics, including fundamental and applied research. These include but are not limited to, aspects of synchronization in complex dynamical systems, universality features in systems with specific fractional dynamics, and chaotic scattering. As such, the book provides an excellent and timely snapshot of the current state of research, blending the insights and experiences of many prominent researchers.

Sync Steven H. Strogatz.2012-02-14 At the heart of the universe is a steady, insistent beat, the sound of cycles in sync. Along the tidal rivers of Malaysia, thousands of fireflies congregate and flash in unison; the moon spins in perfect resonance with its orbit around the earth; our hearts depend on the synchronous firing of ten thousand pacemaker cells. While the forces that synchronize the flashing of fireflies may seem to have nothing to do with our heart cells, there is in fact a deep connection. Synchrony is a science in its infancy, and Strogatz is a pioneer in this new frontier in which mathematicians and physicists attempt to pinpoint just how spontaneous order emerges from chaos. From underground caves in Texas where a French scientist spent six months alone tracking his sleep-wake cycle, to the home of a Dutch physicist who in 1665 discovered two of his pendulum clocks swinging in perfect time, this fascinating book spans disciplines, continents, and centuries. Engagingly written for readers of books such as *Chaos* and *The Elegant Universe*, *Sync* is a tour-de-force of nonfiction writing.

Motivational Dynamics in Language Learning Zoltán Dörnyei,Alastair Henry,Peter D. MacIntyre.2014-10-01 This landmark volume offers a collection of conceptual papers and data-based research studies that investigate the dynamics of language learning motivation from a complex dynamic systems perspective. The chapters seek to answer the question of how we can understand motivation if we perceive it as a continuously changing and evolving entity rather than a fixed learner trait.

The Power of Giving Away Power Matthew Barzun.2021-06-01 “This book is a breakthrough. It’s beautifully written, perfectly timed and heralds a new way forward. I’m buying a dozen copies to share with friends and colleagues.” -Seth Godin, Founder of altMBA and author of *The Practice* If you let go of hierarchy, chaos will reign...or so many leaders believe. But when leaders find the courage to distribute rather than hoard power, creativity multiplies, trust deepens, and inclusivity expands... and a new kind of order emerges. A few rare leaders have learned to embrace a new organizational shape and mindset: Constellations. Organizations designed as constellations are dynamic and flexible networks of distinct yet interwoven individuals. Each member of the team feels like a singular star and is also connected to others to form something greater. That is how Visa reimaged how we pay for things, how Wikipedia beat the richest company in the world and how Barack Obama and his grassroots team revolutionized political campaigning. These leaders did what most leaders dread – they gave away power. Barzun brilliantly layers lessons across history and industries with his own experiences as an internet entrepreneur, political organizer, and US ambassador to the United Kingdom and Sweden. *The Power of Giving Away Power* shows how the Constellation mindset shines in some of the most impactful organizations and innovations the world has ever known. And it encourages us all to recognize, as Barzun writes, the power we can create by seeing the power in others — and making the leap to lead. Together.

The World According to Physics Jim Al-Khalili.2020-03-10 Quantum physicist, New York Times bestselling author, and BBC host Jim Al-Khalili offers a fascinating and illuminating look at what physics reveals about the world Shining a light on the most profound insights revealed by modern physics, Jim Al-Khalili invites us all to understand what this crucially important science tells us about the universe and the nature of reality itself. Al-Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics—quantum theory, relativity, and thermodynamics—showing how all three must come together if we are ever to have a full understanding of reality. Using wonderful examples and thought-provoking analogies, Al-Khalili illuminates the physics of the extreme cosmic and quantum scales, the speculative frontiers of the field, and the physics that underpins our everyday experiences and technologies, bringing the reader up to speed with the biggest ideas in physics in just a few sittings. Physics is revealed as an intrepid human quest for ever more foundational principles that accurately explain the natural world we see around us, an undertaking guided by core values such as honesty and doubt. The knowledge discovered by physics both empowers and humbles us, and still, physics continues to delve valiantly into the unknown. Making even the most enigmatic scientific ideas

accessible and captivating, this deeply insightful book illuminates why physics matters to everyone and calls one and all to share in the profound adventure of seeking truth in the world around us.

Laboratory Life Bruno Latour, Steve Woolgar. 2013-04-04 This highly original work presents laboratory science in a deliberately skeptical way: as an anthropological approach to the culture of the scientist. Drawing on recent work in literary criticism, the authors study how the social world of the laboratory produces papers and other texts, and how the scientific vision of reality becomes that set of statements considered, for the time being, too expensive to change. The book is based on field work done by Bruno Latour in Roger Guillemin's laboratory at the Salk Institute and provides an important link between the sociology of modern sciences and laboratory studies in the history of science.

The Brain That Changes Itself Norman Doidge. 2007-03-15 "Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of *The Man Who Mistook His Wife for a Hat* What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more. An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

Scale Geoffrey West. 2018-05-15 This is science writing as wonder and as inspiration. —The Wall Street Journal Wall Street Journal From one of the most influential scientists of our time, a dazzling exploration of the hidden laws that govern the life cycle of everything from plants and animals to the cities we live in. Visionary physicist Geoffrey West is a pioneer in the field of complexity science, the science of emergent systems and networks. The term "complexity" can be misleading, however, because what makes West's discoveries so beautiful is that he has found an underlying simplicity that unites the seemingly complex and diverse phenomena of living systems, including our bodies, our cities and our businesses. Fascinated by aging and mortality, West applied the rigor of a physicist to the biological question of why we live as long as we do and no longer. The result was astonishing, and changed science: West found that despite the riotous diversity in mammals, they are all, to a large degree, scaled versions of each other. If you know the size of a mammal, you can use scaling laws to learn everything from how much food it eats per day, what its heart-rate is, how long it will take to mature, its lifespan, and so on. Furthermore, the efficiency of the mammal's circulatory systems scales up precisely based on weight: if you compare a mouse, a human and an elephant on a logarithmic graph, you find with every doubling of average weight, a species gets 25% more efficient—and lives 25% longer. Fundamentally, he has proven, the issue has to do with the fractal geometry of the networks that supply energy and remove waste from the organism's body. West's work has been game-changing for biologists, but then he made the even bolder move of exploring his work's applicability. Cities, too, are constellations of networks and laws of scalability relate with eerie precision to them. Recently, West has applied his revolutionary work to the business world. This investigation has led to powerful insights into why some companies thrive while others fail. The implications of these discoveries are far-reaching, and are just beginning to be explored. *Scale* is a thrilling scientific adventure story about the elemental natural laws that bind us together in simple but profound ways. Through the brilliant mind of Geoffrey West, we can envision how cities,

companies and biological life alike are dancing to the same simple, powerful tune.

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