

Probability 1 Amir D Aczel Ph D

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A Strange Wilderness - Amir D. Aczel 2011

"Bestselling popular science author Amir Aczel selects the most fascinating individuals and stories in the history of mathematics, presenting a colorful narrative that explores the quirky personalities behind some of the most profound, enduring theorems. Through such mathematical geniuses as Archimedes, Leonardo of Pisa (a.k.a. Fibonacci), Tartaglia ("the stutterer"), Descartes, Gottfried Leibniz, Carl Gauss, Joseph Fourier (Napoleon's mathematician), Evariste Galois, Georg Cantor, Ramanujan, and "Nicholas Bourbaki," we gather little known details about the alliances and rivalries that profoundly impacted the development of what the scheming doctor-turned-mathematician Geronimo Girolamo called "The Great Art." This story of mathematics is not your dry "college textbook" account; tales of duels, battlefield heroism, flamboyant arrogance, pranks, secret societies, imprisonment, feuds, theft, and even some fatal errors of judgment fill these pages (clearly, genius doesn't guarantee street smarts). Ultimately, readers will come away from this book entertained, with a newfound appreciation of the tenacity, complexity, eccentricity, and brilliance of the mathematical genius"--

Chance - Amir D. Aczel 2006-05-18

Celebrated mathematician Amir D Aczel sets his sights on the probability theory - the branch of mathematics that measures the likelihood of a random event. What is commonly called 'luck' has mathematical roots - and in Aczel's capable hands readers learn to increase their odds of success in everything from true love to the stock market.

My Search for Ramanujan - Ken Ono 2016-04-20

"The son of a prominent Japanese mathematician who came to the United States after World War II, Ken Ono was raised on a diet of high expectations and little praise. Rebellious against his pressure-cooker of a life, Ken determined to drop out of high school to follow his own path. To obtain his father's approval, he invoked the biography of the famous Indian mathematical prodigy Srinivasa Ramanujan, whom his father revered, who had twice flunked out of college because of his single-minded devotion to mathematics. Ono describes his rocky path through college and graduate school, interweaving Ramanujan's story with his own and telling how at key moments, he was inspired by Ramanujan and guided by mentors who encouraged him to pursue his interest in exploring Ramanujan's mathematical legacy. Picking up where others left off, beginning with the great English mathematician G.H. Hardy, who brought Ramanujan to Cambridge in 1914, Ono has devoted his mathematical career to understanding how in his short life, Ramanujan was able to discover so many deep mathematical truths, which Ramanujan believed had been sent to him as visions from a Hindu goddess. And it was Ramanujan who was ultimately the source of reconciliation between Ono and his parents. Ono's search for Ramanujan ranges over three continents and crosses paths with mathematicians whose lives span the globe and the entire twentieth century and beyond. Along the way, Ken made many fascinating discoveries. The most important and surprising one of all was his own humanity."

The Artist and the Mathematician - Amir D. Aczel 2009-04-29

Nicolas Bourbaki, whose mathematical publications began to appear in the late 1930s and continued to be published through most of the twentieth century, was a direct product as well as a major force behind an important revolution that took place in the early decades of the twentieth century that completely changed Western culture. Pure mathematics, the area of Bourbaki's work, seems on the surface to be an abstract

field of human study with no direct connection with the real world. In reality, however, it is closely intertwined with the general culture that surrounds it. Major developments in mathematics have often followed important trends in popular culture; developments in mathematics have acted as harbingers of change in the surrounding human culture. The seeds of change, the beginnings of the revolution that swept the Western world in the early decades of the twentieth century — both in mathematics and in other areas — were sown late in the previous century. This is the story both of Bourbaki and the world that created him in that time. It is the story of an elaborate intellectual joke — because Bourbaki, one of the foremost mathematicians of his day — never existed.

Uranium Wars - Amir D. Aczel 2010-11-09

The author of Fermat's Last Theorem chronicles the scientific discovery of nuclear energy, an account set against the nuclear fission race in 1920s Europe that considers the contributions of such figures as Marie Curie, Enrico Fermi, and Lise Meitner.

The Privileged Planet - Guillermo Gonzalez 2004-02-01

Arguing that life may be rarer than some astronomers and philosophers have said, the author details the delicate balance of factors that make life possible on this planet and reveals the rarity of these conditions in the universe.

The Mystery of the Aleph - Amir D. Aczel 2001-08-28

A compelling narrative that blends the story of infinity with the tragic tale of a tormented and brilliant mathematician.

Complete Business Statistics - Amir D. Aczel 1999

An undergraduate textbook for majors in business.

An Invitation to Modern Number Theory - Steven J. Miller 2006-03-26

In a manner accessible to beginning undergraduates, An Invitation to Modern Number Theory introduces many of the central problems, conjectures, results, and techniques of the field, such as the Riemann Hypothesis, Roth's Theorem, the Circle Method, and Random Matrix Theory. Showing how experiments are used to test conjectures and prove theorems, the book allows students to do original work on such problems, often using little more than calculus (though there are numerous remarks for those with deeper backgrounds). It shows students what number theory theorems are used for and what led to them and suggests problems for further research. Steven Miller and Ramin Takloo-Bighash introduce the problems and the computational skills required to numerically investigate them, providing background material (from probability to statistics to Fourier analysis) whenever necessary. They guide students through a variety of problems, ranging from basic number theory, cryptography, and Goldbach's Problem, to the algebraic structures of numbers and continued fractions, showing connections between these subjects and encouraging students to study them further. In addition, this is the first undergraduate book to explore Random Matrix Theory, which has recently become a powerful tool for predicting answers in number theory. Providing exercises, references to the background literature, and Web links to previous student research projects, An Invitation to Modern Number Theory can be used to teach a research seminar or a lecture class.

Extraterrestrials - Ben Zuckerman 1995-09-28

Experts critically examine the belief that other intelligent life exists in our galaxy.

Pendulum - Amir D. Aczel 2007-11-01

In 1851, struggling, self-taught physicist Léon Foucault performed a dramatic demonstration inside the Panthéon in Paris. By tracking a pendulum's path as it swung repeatedly across the interior of the large ceremonial hall, Foucault offered the first definitive proof -- before an audience that comprised the cream of Parisian society, including the future emperor, Napoleon III -- that the earth revolves on its axis. Through careful, primary research, world-renowned author Amir Aczel has revealed the life of a gifted physicist who had almost no formal education in science, and yet managed to succeed despite the adversity he suffered at the hands of his peers. The range and breadth of Foucault's discoveries is astonishing: He gave us the modern electric compass, devised an electric microscope, invented photographic technology, and made remarkable deductions about color theory, heat waves, and the speed of light. Yet until now so little has been known about his life. Richly detailed and evocative, *Pendulum* tells of the illustrious period in France during the Second Empire; of Foucault's relationship with Napoleon III, a colorful character in his own right; and -- most notably -- of the crucial triumph of science over religion. Dr. Aczel has crafted a fascinating narrative based on the life of this most astonishing and largely unrecognized scientist, whose findings answered many age-old scientific questions and posed new ones that are still relevant today.

The Normal Distribution - Włodzimierz Bryc 2012-12-06

This book is a concise presentation of the normal distribution on the real line and its counterparts on more abstract spaces, which we shall call the Gaussian distributions. The material is selected towards presenting characteristic properties, or characterizations, of the normal distribution. There are many such properties and there are numerous relevant works in the literature. In this book special attention is given to characterizations generated by the so called Maxwell's Theorem of statistical mechanics, which is stated in the introduction as Theorem 0.0.1. These characterizations are of interest both intrinsically, and as techniques that are worth being aware of. The book may also serve as a good introduction to diverse analytic methods of probability theory. We use characteristic functions, tail estimates, and occasionally dive into complex analysis. In the book we also show how the characteristic properties can be used to prove important results about the Gaussian processes and the abstract Gaussian vectors. For instance, in Section 5.4 we present Fernique's beautiful proofs of the zero-one law and of the integrability of abstract Gaussian vectors. The central limit theorem is obtained via characterizations in Section 7.3.

Unconventional Warfare (Special Forces, Book 1) - Chris Lynch 2018-11-27

Discover the secret missions behind America's greatest conflicts. Danny Manion has been fighting his entire life. Sometimes with his fists. Sometimes with his words. But when his actions finally land him in real trouble, he can't fight the judge who offers him a choice: jail... or the army. Turns out there's a perfect place for him in the US military: the Studies and Observation Group (SOG), an elite volunteer-only task force comprised of US Air Force Commandos, Army Green Berets, Navy SEALs, and even a CIA agent or two. With the SOG's focus on covert action and psychological warfare, Danny is guaranteed an unusual tour of duty, and a hugely dangerous one. Fortunately, the very same qualities that got him in trouble at home make him a natural-born commando in a secret war. Even if almost nobody knows he's there. National Book Award finalist Chris Lynch begins a new, explosive fiction series based on the real-life, top-secret history of US black ops.

Present at the Creation - Amir D. Aczel 2012-11-27

The Large Hadron Collider (LHC) is the biggest, and by far the most powerful, machine ever built. A project of CERN, the European Organization for Nuclear Research, its audacious purpose is to re-create, in a 16.5-mile-long circular tunnel under the French-Swiss countryside, the immensely hot and dense conditions that existed some 13.7 billion years ago within the first trillionth of a second after the fiery birth of our universe. In *Present at the Creation*, Amir D. Aczel takes us inside the control rooms, as an international team of researchers begins to discover whether a multibillion-euro investment will fulfill its promise: to find empirical confirmation of theories in physics and cosmology. Through the eyes and words of the men and women who conceived and built CERN and the LHC, Aczel enriches all of us with a firm grounding in the scientific concepts necessary to appreciate fully the stunning July 4, 2012 discovery of the Higgs Boson. Newly updated in the wake of the discovery, *Present at the Creation* tells the story of perhaps the greatest experiment in the history of science.

Probability 1 - Amir D. Aczel 1998

Integrates probability theory with the latest scientific findings from the Hubble telescope and the Mars missions to argue for the existence of intelligent life beyond Earth

Why Science Does Not Disprove God - Amir Aczel 2014-04-15

The renowned science writer, mathematician, and bestselling author of *Fermat's Last Theorem* masterfully refutes the overreaching claims the "New Atheists," providing millions of educated believers with a clear, engaging explanation of what science really says, how there's still much space for the Divine in the universe, and why faith in both God and empirical science are not mutually exclusive. A highly publicized coterie of scientists and thinkers, including Richard Dawkins, the late Christopher Hitchens, and Lawrence Krauss, have vehemently contended that breakthroughs in modern science have disproven the existence of God, asserting that we must accept that the creation of the universe came out of nothing, that religion is evil, that evolution fully explains the dazzling complexity of life, and more. In this much-needed book, science journalist Amir Aczel profoundly disagrees and conclusively demonstrates that science has not, as yet, provided any definitive proof refuting the existence of God. *Why Science Does Not Disprove God* is his brilliant and incisive analyses of the theories and findings of such titans as Albert Einstein, Roger Penrose, Alan Guth, and Charles Darwin, all of whose major breakthroughs leave open the possibility—and even the strong likelihood—of a Creator. Bolstering his argument, Aczel lucidly discourses on arcane aspects of physics to reveal how quantum theory, the anthropic principle, the fine-tuned dance of protons and quarks, the existence of anti-matter and the theory of parallel universes, also fail to disprove God.

God's Equation - Amir D. Aczel 2000-01

God's Equation presents the latest developments in cosmology, the study of the nature of the universe. Internationally renowned mathematician Amir Aczel reveals that Einstein's initial theory about the stars and galaxies, for many years dismissed as a 'blunder', appears to have been proved correct by astronomers. He presents convincing evidence that Einstein was close to understanding God's equation for the nature of the universe.

Finding Zero - Amir D. Aczel 2015-01-06

The invention of numerals is perhaps the greatest abstraction the human mind has ever created. Virtually everything in our lives is digital, numerical, or quantified. The story of how and where we got these numerals, which we so depend on, has for thousands of years been shrouded in mystery. *Finding Zero* is an adventure filled saga of Amir Aczel's lifelong obsession: to find the original sources of our numerals. Aczel has doggedly crisscrossed the ancient world, scouring dusty, moldy texts, cross examining so-called scholars who offered wildly differing sets of facts, and ultimately penetrating deep into a Cambodian jungle to find a definitive proof. Here, he takes the reader along for the ride. The history begins with the early Babylonian cuneiform numbers, followed by the later Greek and Roman letter numerals. Then Aczel asks the key question: where do the numbers we use today, the so-called Hindu-Arabic numerals, come from? It is this search that leads him to explore uncharted territory, to go on a grand quest into India, Thailand, Laos, Vietnam, and ultimately into the wilds of Cambodia. There he is blown away to find the earliest zero—the keystone of our entire system of numbers—on a crumbling, vine-covered wall of a seventh-century temple adorned with eaten-away erotic sculptures. While on this odyssey, Aczel meets a host of fascinating characters: academics in search of truth, jungle trekkers looking for adventure, surprisingly honest politicians, shameless smugglers, and treacherous archaeological thieves—who finally reveal where our numbers come from.

Seven Days that Divide the World, 10th Anniversary Edition - John C. Lennox 2021-10-12

Now revised and updated--John Lennox's acclaimed method of reading and interpreting the first chapters of Genesis without discounting either science or Scripture. What did the writer of Genesis mean by "the first day?" Are the seven days in Genesis 1 a literal week or a series of time periods? If I believe that the earth is 4.5 billion years old as cosmologists believe, am I denying the authority of Scripture? With examples from history, a brief but thorough exploration of the major interpretations, and a look into the particular significance of the creation of human beings, Lennox suggests that Christians can heed modern scientific knowledge while staying faithful to the biblical narrative. He moves beyond a simple response to the controversy, insisting that Genesis teaches us far more about the God of Jesus Christ and about God's

intention for creation than it does about the age of the earth. With this book, Lennox offers a careful and accessible introduction to a scientifically-savvy, theologically-astute, and Scripturally faithful interpretation of Genesis. Since its publication in 2011, this book has enabled many readers to see that the major controversy with which it engages can be resolved without compromising commitment to the authority of Scripture. In this newly revised and expanded edition, John clarifies his arguments, responds to comments and critiques of the past decade since its first publication. In particular, he describes some of the history up to modern times of Jewish scholarly interpretation of the Genesis creation narrative as well as spelling out in more detail the breadth of views in the Great Tradition of interpretation due to the early Church Fathers. He shows that, contrary to what many people think, much of the difficulty with understanding the biblical texts does not arise from modern science but from attempting to elucidate the texts in their own right.
How Alien Would Aliens Be? ed./2 - John A. Cramer

The Jesuit and the Skull - Amir Aczel 2008-11-04

From the New York Times bestselling author of *Fermat's Last Theorem*, "an extraordinary story" (Philadelphia Inquirer) of discovery, evolution, science, and faith. In 1929, French Jesuit priest Pierre Teilhard de Chardin was a part of a group of scientists that uncovered a skull that became known as Peking Man, a key evolutionary link that left Teilhard torn between science and his ancient faith, and would leave him ostracized by his beloved Catholic Church. His struggle is at the heart of *The Jesuit and the Skull*, which takes readers across continents and cultures in a fascinating exploration of one of the twentieth century's most important discoveries, and one of the world's most provocative pieces of evidence in the roiling debate between creationism and evolution.

Fermat's Last Theorem - Amir D. Aczel 2007-09-21

Simple, elegant, and utterly impossible to prove, Fermat's last theorem captured the imaginations of mathematicians for more than three centuries. For some, it became a wonderful passion. For others it was an obsession that led to deceit, intrigue, or insanity. In a volume filled with the clues, red herrings, and suspense of a mystery novel, Amir D. Aczel reveals the previously untold story of the people, the history, and the cultures that lie behind this scientific triumph. From formulas devised from the farmers of ancient Babylonia to the dramatic proof of Fermat's theorem in 1993, this extraordinary work takes us along on an exhilarating intellectual treasure hunt. Revealing the hidden mathematical order of the natural world in everything from stars to sunflowers, *Fermat's Last Theorem* brilliantly combines philosophy and hard science with investigative journalism. The result: a real-life detective story of the intellect, at once intriguing, thought-provoking, and impossible to put down.

Civilized Life in the Universe - George Basalla 2006-01-19

"From Aristotle to Stephen Hawking, some of the most prominent Western scientists have had definite perceptions and misperceptions about the existence of civilized life on other planets. Johannes Kepler, who transformed astronomy with his work on the shape of planetary orbits, was quite sure that engineers on the Moon excavated circular pits to provide shelter for lunar inhabitants. Christian Huygens, the most prominent scientist between Galileo and Newton, criticized Kepler's speculations but used probability theory to prove that "planetarians" on other worlds were much like humans and practiced the science of astronomy. Carl Sagan indicted Huygens as a biological chauvinist but failed to see that he was a cultural chauvinist when he assumed that alien life would have a technology similar to ours, though far more advanced." "This book traces the influence of one speculation on the next, showing an unbroken but twisting chain of ideas as it passes from ancient to modern times and from science to culture and back again. Throughout, the author interweaves his own view that scientific belief in and search for extraterrestrial civilizations is an impulse that is part anthropomorphic and part secularized-religious."--BOOK JACKET.

Logic Made Easy: How to Know When Language Deceives You - Deborah J. Bennett 2005-07-17

"The best introduction to logic you will find."—Martin Gardner "Professor Bennett entertains as she instructs," writes Publishers Weekly about the penetrating yet practical *Logic Made Easy*. This brilliantly clear and gratifyingly concise treatment of the ancient Greek discipline identifies the illogical in everything from street signs to tax forms. Complete with puzzles you can try yourself, *Logic Made Easy* invites readers

to identify and ultimately remedy logical slips in everyday life. Designed with dozens of visual examples, the book guides you through those hair-raising times when logic is at odds with our language and common sense. *Logic Made Easy* is indeed one of those rare books that will actually make you a more logical human being.

Death by Black Hole: And Other Cosmic Quandaries - Neil deGrasse Tyson 2007-11-17

"[Tyson] tackles a great range of subjects...with great humor, humility, and—most important—humanity." —Entertainment Weekly Loyal readers of the monthly "Universe" essays in *Natural History* magazine have long recognized Neil deGrasse Tyson's talent for guiding them through the mysteries of the cosmos with clarity and enthusiasm. Bringing together more than forty of Tyson's favorite essays, *Death by Black Hole* explores a myriad of cosmic topics, from what it would be like to be inside a black hole to the movie industry's feeble efforts to get its night skies right. One of America's best-known astrophysicists, Tyson is a natural teacher who simplifies the complexities of astrophysics while sharing his infectious fascination for our universe.

The Privileged Planet - Guillermo Gonzalez 2020-01-07

Earth. The Final Frontier Contrary to popular belief, Earth is not an insignificant blip on the universe's radar. Our world proves anything but average in Guillermo Gonzalez and Jay W. Richards' *The Privileged Planet: How Our Place in the Cosmos Is Designed for Discovery*. But what exactly does Earth bring to the table? How does it prove its worth among numerous planets and constellations in the vastness of the Milky Way? In *The Privileged Planet*, you'll learn about the world's life-sustaining capabilities, water and its miraculous makeup, protection by the planetary giants, and how our planet came into existence in the first place.

Fundamentals of Probability - Saeed Ghahramani 2015-11-04

Fundamentals of Probability with Stochastic Processes, Third Edition teaches probability in a natural way through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. The author takes a mathematically rigorous approach while closely adhering to the historical development of probability

Aggregation Operators - Tomasa Calvo 2012-12-06

1. The increasing number of research papers appeared in the last years that either make use of aggregation functions or contribute to its theoretical study assess its growing importance in the field of Fuzzy Logic and in others where uncertainty and imprecision play a relevant role. Since these papers are published in many journals, few books and several proceedings of conferences, books on aggregation are particularly welcome. To my knowledge, "Aggregation Operators. New Trends and Applications" is the first book aiming at generality, and I take it as a honour to write this Foreword in response to the gentle demand of its editors, Radko Mesiar, Tomasa Calvo and Gaspar Mayor. My pleasure also derives from the fact that twenty years ago I was one of the first Spaniards interested in the study of aggregation functions, and this book includes work by several Spanish authors. The book contains nice and relevant original papers, authored by some of the most outstanding researchers in the field, and since it can serve, as the editors point out in the Preface, as a small handbook on aggregation, the book is very useful for those entering the subject for the first time. The book also contains apart dealing with potential areas of application, so it can be helpful in gaining insight on the future developments.

Extraterrestrial Civilizations - Isaac Asimov 2011-04-20

Isaac Asimov concludes that we are not alone! Using the most up-to-date astronomical research as the backdrop for speculation, Asimov confronts the possibilities of other-worldly life head-on in *Extraterrestrial Civilizations*. In what will surely become one of the most provocative books ever written on the possibilities of life elsewhere in the universe, the incomparable Isaac Asimov provides chilling, hopeful, and exciting new insights. Here is astounding speculation about where the next giant step for mankind will take us. . . . Praise for *Extraterrestrial Civilizations* "[Isaac] Asimov holds our attention as he builds a meticulous case. We are not alone. It's just a matter of time until we know for sure."—Miami Herald "Intriguing"—Publishers Weekly

Probability 1 - Amir D. Aczel 2000

At one level, this book surveys recent findings about the existence of planets orbiting other sun-like stars,

such as 51 Pegasi (discovered in 1995) and Tau Bootis. It addresses questions such as what life is and what intelligent life is, as well as theories about how life evolved on Earth from basic molecules into more complex organic compounds leading to DNA. The existence of similar molecules on other planets in our solar system, as well as in meteorites that land on Earth every year, is used in an argument for the evolution of such compounds - the building blocks of life - outside Earth. At the same time, the author applies the laws of large numbers to the immense size of the known universe, with its billions of galaxies, each containing many billions of stars, to argue the probability that there is life elsewhere.

Descartes' Secret Notebook - Amir D. Aczel 2005

A portrait of the seventeenth-century philosopher and mathematician looks at his interest in mysticism and probable membership in the occult brotherhood of Rosicrucians, and his secret notebook, which he kept in code, attempting to redcipher the contents of the long-lost volume.

Complete Business Statistics - Amir D. Aczel 2009

How to Beat the I.R.S. at Its Own Game - Amir D. Aczel 1995

A revised guide explains how the I.R.S. chooses which taxpayers to audit and how to avoid being one of them, showing which parts of a tax return are scrutinized most closely and how to handle them. Original. 35,000 first printing. IP.

The British National Bibliography - Arthur James Wells 2009

The Mind's Sky - Timothy Ferris 2009-12-16

The bestselling author of *Coming of Age in the Milky Way* delivers fascinating essays on the human mind, the search for extraterrestrial (and thus nonhuman) intelligence, comet strikes as a source of species extinction, near-death experiences, apocalyptic prophecies, information theory, and the origin of laughter. Praise for *The Mind's Sky* "It is a joy to read *The Mind's Sky*. What a sense of humility in the face of mystery—the spirit of Ulysses, as Tennyson put it, determined 'to strive, to seek, to find and not to yield'—and sense of poetry too!"—John Archibald Wheeler, physicist, Princeton University "A few chapters into this wonderful book I suddenly realized that I was taking wider views of my own mind's sky than I have enjoyed in a long time. Ferris illuminates (among other matters) the mysteries of laughter, nirvana, common sense, and Joe Montana. He makes us think big thoughts."—Jonathan Weiner, author of *The Next 100 Years* and *Planet Earth* "One of our best and most imaginative writers, Timothy Ferris has never been afraid to tackle big themes. *The Mind's Sky* is a dazzling and provocative synthesis of inner and outer space. This book is sure to be as controversial as it is elegant."—Dennis Overbye, author of *Lonely Hearts of the Cosmos*

Probability 1 - Amir D. Aczel 2000

Integrates probability theory with the latest scientific findings from the Hubble telescope and the Mars missions to argue for the existence of intelligent life beyond Earth

Fundamentals of Probability - Saeed Ghahramani 2018-09-05

"The 4th edition of Ghahramani's book is replete with intriguing historical notes, insightful comments, and well-selected examples/exercises that, together, capture much of the essence of probability. Along with its Companion Website, the book is suitable as a primary resource for a first course in probability. Moreover, it has sufficient material for a sequel course introducing stochastic processes and stochastic simulation." -- Nawaf Bou-Rabee, Associate Professor of Mathematics, Rutgers University Camden, USA "This book is an excellent primer on probability, with an incisive exposition to stochastic processes included as well. The flow of the text aids its readability, and the book is indeed a treasure trove of set and solved problems. Every sub-topic within a chapter is supplemented by a comprehensive list of exercises, accompanied frequently by self-quizzes, while each chapter ends with a useful summary and another rich collection of review problems." --Dalia Chakrabarty, Department of Mathematical Sciences, Loughborough University, UK "This textbook provides a thorough and rigorous treatment of fundamental probability, including both discrete and continuous cases. The book's ample collection of exercises gives instructors and students a great deal of practice and tools to sharpen their understanding. Because the definitions, theorems, and examples are clearly labeled and easy to find, this book is not only a great course accompaniment, but an

invaluable reference." --Joshua Stangle, Assistant Professor of Mathematics, University of Wisconsin - Superior, USA This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability. Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been carefully designed to arouse curiosity and hence encourage students to delve into the theory with enthusiasm. New to the Fourth Edition: 538 new examples and exercises have been added, almost all of which are of applied nature in realistic contexts Self-quizzes at the end of each section and self-tests at the end of each chapter allow students to check their comprehension of the material An all-new Companion Website includes additional examples, complementary topics not covered in the previous editions, and applications for more in-depth studies, as well as a test bank and figure slides. It also includes complete solutions to all self-test and self-quiz problems Saeed Ghahramani is Professor of Mathematics and Dean of the College of Arts and Sciences at Western New England University. He received his Ph.D. from the University of California at Berkeley in Mathematics and is a recipient of teaching awards from Johns Hopkins University and Towson University. His research focuses on applied probability, stochastic processes, and queuing theory.

Battleground: Science and Technology [2 volumes] - Peter H. Denton 2008-10-30

The modern world is filled with debate and controversy, and science and technology—the most characteristic features of the modern world—are not immune. Science and technology are implicated in many if not all of the issues, troubles, and problems students are likely to come across in their classes and in their everyday lives. Science and technology serve as a primary pathway to understanding front page headlines on everything from war to AIDS, and from oil exploration to global warming. *Battleground: Science and Technology* examines the most hot-button issues involving science and technology and provides a balanced assessment of the arguments on all sides of the often strident debates. The approximately 100 issues examined in *Battleground: Science and Technology* include topics in the brain sciences, including the controversies over the cause of autism and the reliability of memory, as well as the debates over parapsychology; debates surrounding information technology, such as only privacy, the impact of video games on social behavior, and the advent of virtual reality; the complexity over drugs and medications, such as the testing of the efficacy of medications, the war on recreational drugs, and the costs of pharmaceutical research; and hot-button topics that are constantly in the news, such as evolution and creationism, DNA testing, stem-cell research, and genetically modified organisms. Each entry provides a list of accessible resources useful for further research.

Life in the Universe - James Newsome Pierce 2008

This book explores the science of extraterrestrial life, with a particular emphasis on the existence of intelligent alien civilizations. It introduces the reader to the basic chemistry associated with life on Earth and describes the planetary and stellar environments that allow us to exist. It also discusses the likelihood of alien life developing at other locations in our galaxy, along with the possibility that we will meet or communicate with them. This book is suitable for use as a text in an introductory "Life in the Universe" course. REVIEWS: Blog Critics Magazine written by Regis Schilken <http://blogcritics.org/archives/2009/03/16/082715.php>

More Damned Lies and Statistics - Joel Best 2004-09-06

In this sequel to the acclaimed *Damned Lies and Statistics*, which the Boston Globe said "deserves a place next to the dictionary on every school, media, and home-office desk," Joel Best continues his straightforward, lively, and humorous account of how statistics are produced, used, and misused by everyone from researchers to journalists. Underlining the importance of critical thinking in all matters numerical, Best illustrates his points with examples of good and bad statistics about such contemporary concerns as school shootings, fatal hospital errors, bullying, teen suicides, deaths at the World Trade Center, college ratings, the risks of divorce, racial profiling, and fatalities caused by falling coconuts. *More Damned Lies and Statistics* encourages all of us to think in a more sophisticated and skeptical manner

about how statistics are used to promote causes, create fear, and advance particular points of view. Best identifies different sorts of numbers that shape how we think about public issues: missing numbers are relevant but overlooked; confusing numbers bewilder when they should inform; scary numbers play to our fears about the present and the future; authoritative numbers demand respect they don't deserve; magical numbers promise unrealistic, simple solutions to complex problems; and contentious numbers become the focus of data duels and stat wars. The author's use of pertinent, socially important examples documents the

life-altering consequences of understanding or misunderstanding statistical information. He demystifies statistical measures by explaining in straightforward prose how decisions are made about what to count and what not to count, what assumptions get made, and which figures are brought to our attention. Best identifies different sorts of numbers that shape how we think about public issues. Entertaining, enlightening, and very timely, this book offers a basis for critical thinking about the numbers we encounter and a reminder that when it comes to the news, people count—in more ways than one.