

Zero The Biography Of A Dangerous Idea

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Zero - Charles Seife 2000-09-01
Popular math at its most entertaining and enlightening. "Zero is really something"- Washington Post A New York Times Notable Book. The Babylonians invented it, the Greeks banned it, the Hindus worshiped it, and the

Church used it to fend off heretics. Now it threatens the foundations of modern physics. For centuries the power of zero savored of the demonic; once harnessed, it became the most important tool in mathematics. For zero, infinity's twin, is not like other numbers. It is

both nothing and everything. In *Zero*, Science Journalist Charles Seife follows this innocent-looking number from its birth as an Eastern philosophical concept to its struggle for acceptance in Europe, its rise and transcendence in the West, and its ever-present threat to modern physics. Here are the legendary thinkers—from Pythagoras to Newton to Heisenberg, from the Kabbalists to today's astrophysicists—who have tried to understand it and whose clashes shook the foundations of philosophy, science, mathematics, and religion. *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.

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.

Ground Zero - Alan Gratz 2021-02-02

The instant #1 New York Times bestseller. In time for the twentieth anniversary of 9/11, master storyteller Alan Gratz (Refugee) delivers a pulse-pounding and unforgettable take on history and hope, revenge and fear -- and the stunning links between the past and present. September 11, 2001, New York City: Brandon is visiting his dad at work, on the 107th floor of the World Trade Center. Out of nowhere, an airplane slams into the tower, creating a fiery nightmare

of terror and confusion. And Brandon is in the middle of it all. Can he survive -- and escape? September 11, 2019, Afghanistan: Reshmina has grown up in the shadow of war, but she dreams of peace and progress. When a battle erupts in her village, Reshmina stumbles upon a wounded American soldier named Taz. Should she help Taz -- and put herself and her family in mortal danger? Two kids. One devastating day. Nothing will ever be the same.

A Good Man - Mark Shriver 2012-06-05

In this intimate portrait of an extraordinary father-son relationship, Mark K. Shriver discovers the moral principles that guided his legendary father and applies them to his own life. When Sargent "Sarge" Shriver—founder of the Peace Corps and architect of President Johnson's War on Poverty—died in 2011 after a valiant fight with Alzheimer's, thousands of tributes poured in from friends and strangers worldwide. These tributes, which extolled the daily kindness and humanity of "a good man," moved his son

Mark far more than those who lauded Sarge for his big-stage, headline-making accomplishments. After a lifetime searching for the path to his father's success in the public arena, Mark instead turns to a search for the secret of his father's joy, his devotion to others, and his sense of purpose. Mark discovers notes and letters from Sarge; hears personal stories from friends and family that zero in on the three guiding principles of Sarge's life—faith, hope, and love—and recounts moments with Sarge that now take on new value and poignancy. In the process, Mark discovers much about himself, as a father, as a husband, and as a social justice advocate. A Good Man is an inspirational and deeply personal story about a son discovering the true meaning of his father's legacy.

The History of Zero - Tika Downey 2010-01-01
Looks at counting systems and the history of the number zero.

Year Zero- Ian Buruma 2014-09-30
A marvelous global history of the pivotal year

1945 as a new world emerged from the ruins of World War II Year Zero is a landmark reckoning with the great drama that ensued after war came to an end in 1945. One world had ended and a new, uncertain one was beginning. Regime change had come on a global scale: across Asia (including China, Korea, Indochina, and the Philippines, and of course Japan) and all of continental Europe. Out of the often vicious power struggles that ensued emerged the modern world as we know it. In human terms, the scale of transformation is almost impossible to imagine. Great cities around the world lay in ruins, their populations decimated, displaced, starving. Harsh revenge was meted out on a wide scale, and the ground was laid for much horror to come. At the same time, in the wake of unspeakable loss, the euphoria of the liberated was extraordinary, and the revelry unprecedented. The postwar years gave rise to the European welfare state, the United Nations, decolonization, Japanese pacifism, and the

European Union. Social, cultural, and political “reeducation” was imposed on vanquished by victors on a scale that also had no historical precedent. Much that was done was ill advised, but in hindsight, as Ian Buruma shows us, these efforts were in fact relatively enlightened, humane, and effective. A poignant grace note throughout this history is Buruma’s own father’s story. Seized by the Nazis during the occupation of Holland, he spent much of the war in Berlin as a laborer, and by war’s end was literally hiding in the rubble of a flattened city, having barely managed to survive starvation rations, Allied bombing, and Soviet shock troops when the end came. His journey home and attempted reentry into “normalcy” stand in many ways for his generation’s experience. A work of enormous range and stirring human drama, conjuring both the Asian and European theaters with equal fluency, Year Zero is a book that Ian Buruma is perhaps uniquely positioned to write. It is surely his masterpiece.

[Infinitesimal: How a Dangerous Mathematical Theory Shaped the Modern World](#) - Amir

Alexander 2014-04-08

This fascinating volume, taking readers from the blood religious strife of the 16th century to the battlefields of the English civil war, recounts the epic battle over a simple, yet "forbidden," mathematical concept that would eventually become the foundation of calculus. 30,000 first printing.

Alexander the Great - Philip Freeman
2011-10-18

An authoritative and dramatic portrait set against a backdrop of the war-torn Greek empire draws on extensive research to cover such topics as Alexander's military prowess, premature death and inspiration to subsequent historical conquerors.

The Half-Life of Facts - Samuel Arbesman
2013-08-27

New insights from the science of science Facts change all the time. Smoking has gone from

doctor recommended to deadly. We used to think the Earth was the center of the universe and that the brontosaurus was a real dinosaur. In short, what we know about the world is constantly changing. Samuel Arbesman shows us how knowledge in most fields evolves systematically and predictably, and how this evolution unfolds in a fascinating way that can have a powerful impact on our lives. He takes us through a wide variety of fields, including those that change quickly, over the course of a few years, or over the span of centuries.

Prime Obsession - John Derbyshire 2003-04-15
In August 1859 Bernhard Riemann, a little-known 32-year old mathematician, presented a paper to the Berlin Academy titled: "On the Number of Prime Numbers Less Than a Given Quantity." In the middle of that paper, Riemann made an incidental remark "a guess, a hypothesis. What he tossed out to the assembled mathematicians that day has proven to be almost cruelly compelling to countless scholars in the

ensuing years. Today, after 150 years of careful research and exhaustive study, the question remains. Is the hypothesis true or false? Riemann's basic inquiry, the primary topic of his paper, concerned a straightforward but nevertheless important matter of arithmetic "defining a precise formula to track and identify the occurrence of prime numbers. But it is that incidental remark "the Riemann Hypothesis" that is the truly astonishing legacy of his 1859 paper. Because Riemann was able to see beyond the pattern of the primes to discern traces of something mysterious and mathematically elegant shrouded in the shadows "subtle variations in the distribution of those prime numbers. Brilliant for its clarity, astounding for its potential consequences, the Hypothesis took on enormous importance in mathematics. Indeed, the successful solution to this puzzle would herald a revolution in prime number theory. Proving or disproving it became the greatest challenge of the age. It has become

clear that the Riemann Hypothesis, whose resolution seems to hang tantalizingly just beyond our grasp, holds the key to a variety of scientific and mathematical investigations. The making and breaking of modern codes, which depend on the properties of the prime numbers, have roots in the Hypothesis. In a series of extraordinary developments during the 1970s, it emerged that even the physics of the atomic nucleus is connected in ways not yet fully understood to this strange conundrum. Hunting down the solution to the Riemann Hypothesis has become an obsession for many — the veritable "great white whale" of mathematical research. Yet despite determined efforts by generations of mathematicians, the Riemann Hypothesis defies resolution. Alternating passages of extraordinarily lucid mathematical exposition with chapters of elegantly composed biography and history, *Prime Obsession* is a fascinating and fluent account of an epic mathematical mystery that continues to

challenge and excite the world. Posited a century and a half ago, the Riemann Hypothesis is an intellectual feast for the cognoscenti and the curious alike. Not just a story of numbers and calculations, *Prime Obsession* is the engrossing tale of a relentless hunt for an elusive proof — and those who have been consumed by it.

A Concise Introduction to Pure Mathematics
Martin Liebeck 2018-09-03

Accessible to all students with a sound background in high school mathematics, *A Concise Introduction to Pure Mathematics*, Fourth Edition presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler's formula for the numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and

decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler's phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

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.

Sun in a Bottle - Charles Seife 2008

Chronicles the last half century's haphazard attempt to harness fusion energy, describing how governments and research teams throughout the world have employed measures ranging from the controversial to the humorous.

Alpha And Omega - Charles Seife 2011-06-30

Since A BRIEF HISTORY OF TIME scientists have been in the midst of a revolution in cosmology. Gradually, astronomers and physicists are answering questions that have plagued mankind since prehistory: how was the universe born, how will it end? They are even now peering into the cradle of the universe - and into its grave. By the beginning of next year, scientists will have a clue to some of the answers. These will be among the greatest triumphs of science. This book tells that story and will reveal results of the most advanced experiments in cosmology ever conducted. It's a tale of men solving the insoluble, of the controversy and anger of rivals after the same

goal. Even more thrillingly - it is a lucid explanation of new scientific ideas that stretch man's powers of understanding to their highest levels.

Proofiness - Charles Seife 2010

The bestselling author of "Zero" shows how mathematical misinformation pervades-- and shapes-- our daily lives.

Zero to One Peter Thiel 2014-09-16

#1 NEW YORK TIMES BESTSELLER • “This book delivers completely new and refreshing ideas on how to create value in the world.”—Mark Zuckerberg, CEO of Meta “Peter Thiel has built multiple breakthrough companies, and Zero to One shows how.”—Elon Musk, CEO of SpaceX and Tesla The great secret of our time is that there are still uncharted frontiers to explore and new inventions to create. In Zero to One, legendary entrepreneur and investor Peter Thiel shows how we can find singular ways to create those new things. Thiel begins with the contrarian premise that we live

in an age of technological stagnation, even if we're too distracted by shiny mobile devices to notice. Information technology has improved rapidly, but there is no reason why progress should be limited to computers or Silicon Valley. Progress can be achieved in any industry or area of business. It comes from the most important skill that every leader must master: learning to think for yourself. Doing what someone else already knows how to do takes the world from 1 to n, adding more of something familiar. But when you do something new, you go from 0 to 1. The next Bill Gates will not build an operating system. The next Larry Page or Sergey Brin won't make a search engine. Tomorrow's champions will not win by competing ruthlessly in today's marketplace. They will escape competition altogether, because their businesses will be unique. Zero to One presents at once an optimistic view of the future of progress in America and a new way of thinking about innovation: it starts by learning to ask the

questions that lead you to find value in unexpected places.

The New York Times Book of Mathematics - Gina Bari Kolata 2013

Presents a selection from the archives of the New York newspaper of its writings on mathematics from 1892 to 2010, covering such topics as chaos theory, statistics, cryptography, and computers.

The Forever War - Joe Haldeman 1975

"Del Rey book." Battling the Taurans in space was one problem as Private William Mandella worked his way up the ranks to major. In spanning the stars, he aged only months while Earth aged centuries.

Hawking - Charles Seife 2001-04-06
Stephen Hawking was widely recognized as the world's best physicist and even the most brilliant man alive—but what if his true talent was self-promotion? When Stephen Hawking died, he was widely recognized as the world's best physicist, and even its smartest person. He was neither. In

Hawking Hawking, science journalist Charles Seife explores how Stephen Hawking came to be thought of as humanity's greatest genius. Hawking spent his career grappling with deep questions in physics, but his renown didn't rest on his science. He was a master of self-promotion, hosting parties for time travelers, declaring victory over problems he had not solved, and wooing billionaires. In a wheelchair and physically dependent on a cadre of devotees, Hawking still managed to captivate the people around him—and use them for his own purposes. A brilliant exposé and powerful biography, Hawking Hawking uncovers the authentic Hawking buried underneath the fake. It is the story of a man whose brilliance in physics was matched by his genius for building his own myth.

Born a Crime - Trevor Noah 2016-11-15
#1 NEW YORK TIMES BESTSELLER • More than one million copies sold! A “brilliant” (Lupita Nyong’o, Time), “poignant” (Entertainment Weekly), “soul-nourishing” (USA Today) memoir

about coming of age during the twilight of apartheid “Noah’s childhood stories are told with all the hilarity and intellect that characterizes his comedy, while illuminating a dark and brutal period in South Africa’s history that must never be forgotten.”—Esquire Winner of the Thurber Prize for American Humor and an NAACP Image Award • Named one of the best books of the year by The New York Time, USA Today, San Francisco Chronicle, NPR, Esquire, Newsday, and Booklist Trevor Noah’s unlikely path from apartheid South Africa to the desk of The Daily Show began with a criminal act: his birth. Trevor was born to a white Swiss father and a black Xhosa mother at a time when such a union was punishable by five years in prison. Living proof of his parents’ indiscretion, Trevor was kept mostly indoors for the earliest years of his life, bound by the extreme and often absurd measures his mother took to hide him from a government that could, at any moment, steal him away. Finally liberated by the end of South

Africa's tyrannical white rule, Trevor and his mother set forth on a grand adventure, living openly and freely and embracing the opportunities won by a centuries-long struggle. *Born a Crime* is the story of a mischievous young boy who grows into a restless young man as he struggles to find himself in a world where he was never supposed to exist. It is also the story of that young man's relationship with his fearless, rebellious, and fervently religious mother—his teammate, a woman determined to save her son from the cycle of poverty, violence, and abuse that would ultimately threaten her own life. The stories collected here are by turns hilarious, dramatic, and deeply affecting. Whether subsisting on caterpillars for dinner during hard times, being thrown from a moving car during an attempted kidnapping, or just trying to survive the life-and-death pitfalls of dating in high school, Trevor illuminates his curious world with an incisive wit and unflinching honesty. His stories weave together

to form a moving and searingly funny portrait of a boy making his way through a damaged world in a dangerous time, armed only with a keen sense of humor and a mother's unconditional, unconditional love.

Prelude to Mathematics - W. W. Sawyer
2012-04-19

This lively, stimulating account of non-Euclidean geometry by a noted mathematician covers matrices, determinants, group theory, and many other related topics, with an emphasis on the subject's novel, striking aspects. 1955 edition.

Christianity's Dangerous Idea - Alister McGrath
2008-11-04

A New Interpretation of Protestantism and Its Impact on the World The radical idea that individuals could interpret the Bible for themselves spawned a revolution that is still being played out on the world stage today. This innovation lies at the heart of Protestantism's remarkable instability and adaptability. World-renowned scholar Alister McGrath sheds new

light on the fascinating figures and movements that continue to inspire debate and division across the full spectrum of Protestant churches and communities worldwide.

The Nothing that is 2000

The value of nothing is explored in rich detail as the author reaches back as far as the ancient Sumerians to find evidence that humans have long struggled with the concept of zero, from the Greeks who may or may not have known of it, to the East where it was first used, to the modern-day desktop PC, which uses it as an essential letter in its computational alphabet.

An Imaginary Tale Paul J. Nahin 2010-02-22

Today complex numbers have such widespread practical use--from electrical engineering to aeronautics--that few people would expect the story behind their derivation to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year-old history of one of mathematics' most elusive numbers, the square root of minus one, also known as i . He

recreates the baffling mathematical problems that conjured it up, and the colorful characters who tried to solve them. In 1878, when two brothers stole a mathematical papyrus from the ancient Egyptian burial site in the Valley of Kings, they led scholars to the earliest known occurrence of the square root of a negative number. The papyrus offered a specific numerical example of how to calculate the volume of a truncated square pyramid, which implied the need for i . In the first century, the mathematician-engineer Heron of Alexandria encountered I in a separate project, but fudged the arithmetic; medieval mathematicians stumbled upon the concept while grappling with the meaning of negative numbers, but dismissed their square roots as nonsense. By the time of Descartes, a theoretical use for these elusive square roots--now called "imaginary numbers"--was suspected, but efforts to solve them led to intense, bitter debates. The notorious i finally won acceptance and was put to use in complex

analysis and theoretical physics in Napoleonic times. Addressing readers with both a general and scholarly interest in mathematics, Nahin weaves into this narrative entertaining historical facts and mathematical discussions, including the application of complex numbers and functions to important problems, such as Kepler's laws of planetary motion and ac electrical circuits. This book can be read as an engaging history, almost a biography, of one of the most evasive and pervasive "numbers" in all of mathematics. Some images inside the book are unavailable due to digital copyright restrictions.

e: The Story of a Number - Eli Maor
2011-10-12

The interest earned on a bank account, the arrangement of seeds in a sunflower, and the shape of the Gateway Arch in St. Louis are all intimately connected with the mysterious number e . In this informal and engaging history, Eli Maor portrays the curious characters and the

elegant mathematics that lie behind the number. Designed for a reader with only a modest mathematical background, this biography brings out the central importance of e to mathematics and illuminates a golden era in the age of science.

Einstein's Heroes - Robyn Arianrhod 2006
Blending science, history, and biography, this book reveals the mysteries of mathematics, focusing on the life and work of three of Albert Einstein's heroes: Isaac Newton, Michael Faraday, and James Clerk Maxwell.

Double the Danger and Zero Zucchini - Betsy Uhrig
2020-09-22

A young boy attempts to transform his aunt's boring children's book into an exciting one in this funny, fast-paced adventure perfect for fans of the Book Scavenger series! Books aren't supposed to be dangerous. Are they? Alex Harmon prefers running over sitting still reading. But when his aunt offers to pay him to point out the boring parts in her children's book,

he figures it's an easy way to make ten bucks. The problem is that her book is about a grumpy frog and a prize-winning zucchini. It doesn't have only a few boring pages...the whole thing is a lost cause. Alex gives his aunt some ideas to help her out—like adding danger and suspense. But books can't just be interesting. They also have to be believable. Soon Alex recruits his friends to help him act out scenes so he can describe all the important details. He's even getting plot twists from a mysterious stranger (who might also be a ghost). Too late, Alex discovers that being a real-life stunt double for a fictional character can land you in terrible trouble—even if your friends are laughing their heads off!

The Money Illusion Scott Sumner 2021-09-03
"The Money Illusion is George Mason University economist Scott Sumner's end-to-end case for an evolved, less discretionary approach to monetary policy, which he and his cohort have termed "market monetarism." The nominal use of

"market" here is telling: Sumner argues that public confidence in central banking institutions like the Fed is central, and as critical as forecasting, to ensuring the health and stability of the economy. To achieve it, he makes a case that monetary policy should be indexed against a pre-set growth trajectory (in the form of a steadily increasing nominal GDP), not regulated ad-hoc through interpretations of short-term market changes. As Sumner tells it, the Fed is simultaneously responsible for the Great Recession and our best safeguard against having it happen again. Part of that is a responsibility to chart a course, and to do so with transparency"--
The Universal History of Numbers - Georges Ifrah 2000-10-09

"Georges Ifrah is the man. This book, quite simply, rules. . . . It is outstanding . . . a mind-boggling and enriching experience." -The Guardian (London) "Monumental. . . . a fascinating journey taking us through many different cultures."-The Times (London)"Ifrah's

book amazes and fascinates by the scope of its scholarship. It is nothing less than the history of the human race told through figures."

-International Herald Tribune Now in paperback, here is Georges Ifrah's landmark international bestseller—the first complete, universal study of the invention and evolution of numbers the world over. A riveting history of counting and calculating, from the time of the cave dwellers to the twentieth century, this fascinating volume brings numbers to thrilling life, explaining their development in human terms, the intriguing situations that made them necessary, and the brilliant achievements in human thought that they made possible. It takes us through the numbers story from Europe to China, via ancient Greece and Rome, Mesopotamia, Latin America, India, and the Arabic countries. Exploring the many ways civilizations developed and changed their mathematical systems, Ifrah imparts a unique insight into the nature of human thought—and

into how our understanding of numbers and the ways they shape our lives have changed and grown over thousands of years.

"Dazzling."-Kirkus Reviews "Sure to transfix readers."-PublishersWeekly

Zero - Charles Seife 2000-09-01

Popular math at its most entertaining and enlightening. "Zero is really something"- Washington Post A New York Times Notable Book. The Babylonians invented it, the Greeks banned it, the Hindus worshiped it, and the Church used it to fend off heretics. Now it threatens the foundations of modern physics. For centuries the power of zero savored of the demonic; once harnessed, it became the most important tool in mathematics. For zero, infinity's twin, is not like other numbers. It is both nothing and everything. In *Zero*, Science Journalist Charles Seife follows this innocent-looking number from its birth as an Eastern philosophical concept to its struggle for acceptance in Europe, its rise and

transcendence in the West, and its ever-present threat to modern physics. Here are the legendary thinkers—from Pythagoras to Newton to Heisenberg, from the Kabalists to today's astrophysicists—who have tried to understand it and whose clashes shook the foundations of philosophy, science, mathematics, and religion. 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.

The Book of Nothing - John D. Barrow

2009-05-20

What conceptual blind spot kept the ancient Greeks (unlike the Indians and Maya) from developing a concept of zero? Why did St. Augustine equate nothingness with the Devil? What tortuous means did 17th-century scientists employ in their attempts to create a vacuum?

And why do contemporary quantum physicists believe that the void is actually seething with subatomic activity? You'll find the answers in this dizzyingly erudite and elegantly explained book by the English cosmologist John D. Barrow. Ranging through mathematics, theology, philosophy, literature, particle physics, and cosmology, The Book of Nothing explores the enduring hold that vacuity has exercised on the human imagination. Combining high-wire speculation with a wealth of reference that takes in Freddy Mercury and Shakespeare alongside Isaac Newton, Albert Einstein, and Stephen Hawking, the result is a fascinating excursion to the vanishing point of our knowledge.

The Magic of Math - Arthur Benjamin

2015-09-08

The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the

science guy) The Magic of Math is the math book you wish you had in school. Using a delightful assortment of examples-from ice-cream scoops and poker hands to measuring mountains and making magic squares-this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- Physics World

Measurement - Paul Lockhart 2012-09-25
Lockhart's Mathematician's Lament outlined how we introduce math to students in the wrong way. Measurement explains how math should be done. With plain English and pictures, he makes

complex ideas about shape and motion intuitive and graspable, and offers a solution to math phobia by introducing us to math as an artful way of thinking and living.

Thinking In Numbers - Daniel Tammet
2013-07-30

The irresistibly engaging book that "enlarges one's wonder at Tammet's mind and his all-embracing vision of the world as grounded in numbers" (Oliver Sacks, MD). Thinking in Numbers is the book that Daniel Tammet, mathematical savant and bestselling author, was born to write. In Tammet's world, numbers are beautiful and mathematics illuminates our lives and minds. Using anecdotes, everyday examples, and ruminations on history, literature, and more, Tammet allows us to share his unique insights and delight in the way numbers, fractions, and equations underpin all our lives. Inspired variously by the complexity of snowflakes, Anne Boleyn's eleven fingers, and his many siblings, Tammet explores questions such as why time

seems to speed up as we age, whether there is such a thing as an average person, and how we can make sense of those we love. His provocative and inspiring new book will change the way you think about math and fire your imagination to view the world with fresh eyes.

Virtual Unreality - Charles Seife 2015-08-04

The author of *Zero and Proofiness* explains how to tell truth from fantasy in the digital world, and why it matters. Today, the Internet allows us to spread information faster and to more people than ever before—never mind whether it's true or not. In *Virtual Unreality*, mathematician, science reporter, and journalist watchdog Charles Seife takes us deep into the information jungle and cuts a path through the trickery, fakery, and cyber skullduggery that the Internet enables. Providing a much-needed toolkit to help separate fact from fiction, Seife, with his trademark wit and skepticism, addresses the problems that face us every time we turn on our computers and Google our most recent medical

symptoms, read a politician's tweet, fact-check something on Wikipedia, or start an online relationship. Let the clicker beware.

A History of Pi - Petr Beckmann 1971

Documents the calculation, numerical value, and use of the ratio from 2000 B.C. to the modern computer age, detailing social conditions in eras when progress was made

Decoding the Universe - Charles Seife

2007-01-30

The author of *Zero* explains the scientific revolution that is transforming the way we understand our world. Previously the domain of philosophers and linguists, information theory has now moved beyond the province of code breakers to become the crucial science of our time. In *Decoding the Universe*, Charles Seife draws on his gift for making cutting-edge science accessible to explain how this new tool is deciphering everything from the purpose of our DNA to the parallel universes of our Byzantine cosmos. The result is an exhilarating adventure

that deftly combines cryptology, physics, biology, and mathematics to cast light on the new understanding of the laws that govern life and the universe.

Five Equations That Changed the World - Dr.

Michael Guillen 2012-06-05

A Publishers Weekly best book of 1995! Dr.

Michael Guillen, known to millions as the science editor of ABC's Good Morning America, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime's most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr. Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein's famous energy equation, $E=mc^2$ -- enabled the creation of the nuclear bomb. Also revealed are the

mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical imagination," and named a Best Nonfiction Book of 1995, the stories behind The Five Equations That Changed the World, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

A Most Elegant Equation David Stipp

2017-11-07

An award-winning science writer introduces us to mathematics using the extraordinary equation that unites five of mathematics' most important numbers Bertrand Russell wrote that mathematics can exalt "as surely as poetry." This is especially true of one equation: $e^{i\pi} + 1 = 0$, the brainchild of Leonhard Euler, the Mozart of mathematics. More than two centuries after Euler's death, it is still regarded as a conceptual

diamond of unsurpassed beauty. Called Euler's identity or God's equation, it includes just five numbers but represents an astonishing revelation of hidden connections. It ties together everything from basic arithmetic to compound interest, the circumference of a circle, trigonometry, calculus, and even infinity. In David Stipp's hands, Euler's identity formula becomes a contemplative stroll through the glories of mathematics. The result is an ode to this magical field.

: A Biography Of The World's Most Mysterious Number - Alfred S. Posamentier
PI-this seemingly mundane number holds a world of mystery, which has fascinated mathematicians from ancient times to the present. What is PI? What is the real value of PI? How do mathematicians determine the value of PI? In what ways is PI used? How was it calculated in ancient times? Its elusive nature has led investigators over the years to ever-closer approximations.