

## Journey Through Genius The Great Theorems Of Mathematics

A Journey into Value Systemse: The Story of a NumberPrime ObsessionStruck by GeniusAn Introduction to Abstract MathematicsMen of MathematicsReal AnalysisA Proud Taste for Scarlet and MiniverMathematics Through the Eyes of FaithGood to GreatThe Man Who Knew InfinityInstant GeniusGenius and LustThe Mathematical UniverseA Very Stable GeniusThe Equation that Couldn't Be SolvedA History of PiThe European Mathematical AwakeningTropic of Cancer (Harper Perennial Modern Classics)Great Moments in Mathematics Before 1650Introduction to AnalysisJourney Through GeniusJourney Through GeniusThe History of MathematicsThe Calculus GalleryThe Genius of Alexander the GreatWhat is Mathematics?Math through the Ages: A Gentle History for Teachers and Others Expanded Second EditionJames and the Giant PeachMultipliersJourney into MathematicsThe Historical Roots of Elementary MathematicsZeroOrigin StoryAmerican PrisonA Wrinkle in TimeBeyond InfinityThe Geography of GeniusThe Genius of OneEuler

### A Journey into Value Systems

`Math through the Ages' is a treasure, one of the best history of math books at its level ever written. Somehow, it manages to stay true to a surprisingly sophisticated story, while respecting the needs of its audience. Its overview of the subject captures most of what one needs to know, and the 30 sketches are small gems of exposition that stimulate further

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exploration. --Glen van Brummelen, Quest University, President (2012-14) of the Canadian Society for History and Philosophy of Mathematics Where did math come from? Who thought up all those algebra symbols, and why? What is the story behind  $\pi$ ? negative numbers? the metric system? quadratic equations? sine and cosine? logs? The 30 independent historical sketches in *Math through the Ages* answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30 short stories are preceded by a 58-page bird's-eye overview of the entire panorama of mathematical history, a whirlwind tour of the most important people, events, and trends that shaped the mathematics we know today. "What to Read Next" and reading suggestions after each sketch provide starting points for readers who want to learn more. This book is ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and anyone who just wants to know a little more about the origins of mathematics.

### e: The Story of a Number

From one of the greatest minds in contemporary mathematics, Professor E.T. Bell, comes a witty, accessible, and fascinating look at the beautiful craft and enthralling history of mathematics. *Men of Mathematics* provides a rich account of major mathematical milestones, from the geometry of the Greeks through Newton's calculus, and on to the laws of probability,

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symbolic logic, and the fourth dimension. Bell breaks down this majestic history of ideas into a series of engrossing biographies of the great mathematicians who made progress possible—and who also led intriguing, complicated, and often surprisingly entertaining lives. Never pedantic or dense, Bell writes with clarity and simplicity to distill great mathematical concepts into their most understandable forms for the curious everyday reader. Anyone with an interest in math may learn from these rich lessons, an advanced degree or extensive research is never necessary.

### Prime Obsession

From the bestselling author of *Charlie and the Chocolate Factory* and *The BFG!* After James Henry Trotter's parents are tragically eaten by a rhinoceros, he goes to live with his two horrible aunts, Spiker and Sponge. Life there is no fun, until James accidentally drops some magic crystals by the old peach tree and strange things start to happen. The peach at the top of the tree begins to grow, and before long it's as big as a house. Inside, James meets a bunch of oversized friends—Grasshopper, Centipede, Ladybug, and more. With a snip of the stem, the peach starts rolling away, and the great adventure begins! From the Trade Paperback edition.

### Struck by Genius

"Dunham writes for nonspecialists, and they will enjoy his piquant anecdotes and amusing

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asides -- Booklist "Artfully, Dunham conducts a tour of the mathematical universe. . .he believes these ideas to be accessible to the audience he wants to reach, and he writes so that they are." -- Nature "If you want to encourage anyone's interest in math, get them TheMathematical Universe." \* New Scientist

### An Introduction to Abstract Mathematics

SHORTLISTED FOR THE 2017 ROYAL SOCIETY SCIENCE BOOK PRIZE Even small children know there are infinitely many whole numbers - start counting and you'll never reach the end. But there are also infinitely many decimal numbers between zero and one. Are these two types of infinity the same? Are they larger or smaller than each other? Can we even talk about 'larger' and 'smaller' when we talk about infinity? In *Beyond Infinity*, international maths sensation Eugenia Cheng reveals the inner workings of infinity. What happens when a new guest arrives at your infinite hotel - but you already have an infinite number of guests? How does infinity give Zeno's tortoise the edge in a paradoxical foot-race with Achilles? And can we really make an infinite number of cookies from a finite amount of cookie dough? Wielding an armoury of inventive, intuitive metaphor, Cheng draws beginners and enthusiasts alike into the heart of this mysterious, powerful concept to reveal fundamental truths about mathematics, all the way from the infinitely large down to the infinitely small.

### Men of Mathematics

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A biography of the Indian mathematician Srinivasa Ramanujan. The book gives a detailed account of his upbringing in India, his mathematical achievements, and his mathematical collaboration with English mathematician G. H. Hardy. The book also reviews the life of Hardy and the academic culture of Cambridge University during the early twentieth century.

### Real Analysis

The world is fractured. Tensions are high, patience is low, and goodwill is hard to come by. In *The Genius of One*, author and pastor Greg Holder reminds us of the high value Jesus and his early followers placed on community and offers guidance for how to see and relate to one another in emotionally and spiritually healthy ways so that we, the church, can fulfill Jesus' prayer for us and model a better way of loving one another in a fractured world. Tracing back to a prayer Jesus prayed on the worst night of his life, "That they—that we—would be one," Holder takes his readers on a winding journey from that glorious prayer to the practical realities of everyday life. For those who cling to the hope that God is still at work, this book will both stir a deeper longing for a better way and provide practical steps toward that way.

### A Proud Taste for Scarlet and Miniver

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

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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

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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.

### Mathematics Through the Eyes of Faith

Tag along on this New York Times bestselling “witty, entertaining romp” (The New York Times Book Review) as Eric Weiner travels the world, from Athens to Silicon Valley—and back through history, too—to show how creative genius flourishes in specific places at specific times. In this “intellectual odyssey, traveler’s diary, and comic novel all rolled into one” (Daniel Gilbert, author of *Stumbling on Happiness*), acclaimed travel writer Weiner sets out to examine the connection between our surroundings and our most innovative ideas. A “superb travel guide: funny, knowledgeable, and self-deprecating” (The Washington Post), he explores the history of places like Vienna of 1900, Renaissance Florence, ancient Athens, Song Dynasty Hangzhou, and Silicon Valley to show how certain urban settings are conducive to ingenuity. With his trademark insightful humor, this “big-hearted humanist” (The Wall Street Journal) walks the same paths as the geniuses who flourished in these settings to see if the spirit of what inspired figures like Socrates, Michelangelo, and Leonardo remains. In these places, Weiner asks, “What was in the air, and can we bottle it?” “Fun and thought provoking” (Miami Herald), The

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Geography of Genius reevaluates the importance of culture in nurturing creativity and offers a practical map for how we can all become a bit more inventive (Adam Grant, author of Originals).

### Good to Great

"As a commander of men of many races, Alexander was and is incomparable. As a statesman he envisaged, and to some extent created, an ecumenical kingdom which rose above race and nation and which enjoyed peace and prosperity, extending from his birthplace in Macedonia to the borders of Kashmir. His intellect and charismatic personality so fascinated those he conquered that they served in his army and administration and adopted him as the hero of their quasi-mythical romances. We have much to learn today from this genius of a man who died having achieved so much at the age of thirty-two."--BOOK JACKET.

### The Man Who Knew Infinity

A Wrinkle in Time is the winner of the 1963 Newbery Medal. It was a dark and stormy night Meg Murry, her small brother Charles Wallace, and her mother had come down to the kitchen for a midnight snack when they were upset by the arrival of a most disturbing stranger. "Wild nights are my glory," the unearthly stranger told them. "I just got caught in a downdraft and blown off course. Let me sit down for a moment, and then I'll be on my way. Speaking of

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ways, by the way, there is such a thing as a tesseract." A tesseract (in case the reader doesn't know) is a wrinkle in time. To tell more would rob the reader of the enjoyment of Miss L'Engle's unusual book. *A Wrinkle in Time*, winner of the Newbery Medal in 1963, is the story of the adventures in space and time of Meg, Charles Wallace, and Calvin O'Keefe (athlete, student, and one of the most popular boys in high school). They are in search of Meg's father, a scientist who disappeared while engaged in secret work for the government on the tesseract problem.

### Instant Genius

Like masterpieces of art, music, and literature, great mathematical theorems are creative milestones, works of genius destined to last forever. Now William Dunham gives them the attention they deserve. Dunham places each theorem within its historical context and explores the very human and often turbulent life of the creator -- from Archimedes, the absentminded theoretician whose absorption in his work often precluded eating or bathing, to Gerolamo Cardano, the sixteenth-century mathematician whose accomplishments flourished despite a bizarre array of misadventures, to the paranoid genius of modern times, Georg Cantor. He also provides step-by-step proofs for the theorems, each easily accessible to readers with no more than a knowledge of high school mathematics. A rare combination of the historical, biographical, and mathematical, *Journey Through Genius* is a fascinating introduction to a neglected field of human creativity. "It is mathematics presented as a series of works of art; a fascinating lingering over individual examples of ingenuity and insight. It is mathematics by

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lightning flash." --Isaac Asimov

## Genius and Lust

Miller's groundbreaking first novel, banned in Britain for almost thirty years.

## The Mathematical Universe

Real Analysis builds the theory behind calculus directly from the basic concepts of real numbers, limits, and open and closed sets in  $\mathbb{R}^n$ . It gives the three characterizations of continuity: via epsilon-delta, sequences, and open sets. It gives the three characterizations of compactness: as "closed and bounded," via sequences, and via open covers. Topics include Fourier series, the Gamma function, metric spaces, and Ascoli's Theorem. The text not only provides efficient proofs, but also shows the student how to come up with them. The excellent exercises come with select solutions in the back. Here is a real analysis text that is short enough for the student to read and understand and complete enough to be the primary text for a serious undergraduate course. Frank Morgan is the author of five books and over one hundred articles on mathematics. He is an inaugural recipient of the Mathematical Association of America's national Haimo award for excellence in teaching. With this book, Morgan has finally brought his famous direct style to an undergraduate real analysis text.

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## A Very Stable Genius

This treatment covers the mechanics of writing proofs, the area and circumference of circles, and complex numbers and their application to real numbers. 1998 edition.

## The Equation that Couldn't Be Solved

A discussion of fundamental mathematical principles from algebra to elementary calculus designed to promote constructive mathematical reasoning.

## A History of Pi

Washington Post national investigative reporter Carol Leonnig and White House bureau chief Philip Rucker, both Pulitzer Prize winners, provide the definitive insider narrative of Donald Trump's unique presidency with shocking new reporting and insight into its implications. "I alone can fix it." So went Donald J. Trump's march to the presidency on July 21, 2016, when he accepted the Republican presidential nomination in Cleveland, promising to restore what he described as a fallen nation. Yet over the subsequent years, as he has undertaken the actual work of the commander in chief, it has been hard to see beyond the daily chaos of scandal, investigation, and constant bluster. It would be all too easy to mistake Trump's first term for one of pure and uninhibited chaos, but there were patterns to his behavior and that of his

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associates. The universal value of the Trump administration is loyalty - not to the country, but to the president himself - and Trump's North Star has been the perpetuation of his own power, even when it meant imperiling our shaky and mistrustful democracy. Leonnig and Rucker, with deep and unmatched sources throughout Washington, D.C., tell of rages and frenzies but also moments of courage and perseverance. Relying on scores of exclusive new interviews with some of the most senior members of the Trump administration and other firsthand witnesses, the authors reveal the forty-fifth president up close, taking readers inside Robert Mueller's Russia investigation as well as the president's own hap-hazard but ultimately successful legal defense. Here for the first time certain officials who have felt honor-bound not to publicly criticize a sitting president or to divulge what they witnessed in a position of trust tell the truth for the benefit of history. This peerless and gripping narrative reveals President Trump at his most unvarnished and exposes how decision making in his administration has been driven by a reflexive logic of self-preservation and self-aggrandizement - but a logic nonetheless. This is the story of how an unparalleled president has scrambled to survive and tested the strength of America's democracy and its common heart as a nation.

### The European Mathematical Awakening

"In 2014, Shane Bauer was hired for \$9 an hour to work as an entry-level prison guard at a private prison in Winnfield, Louisiana. An award-winning investigative journalist, he used his real name; there was no meaningful background check. Four months later, his employment came to an abrupt end In [this book], Bauer weaves a reckoning with his experiences together

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with a history of for-profit prisons in America from their origins in the decades before the Civil War"--

### Tropic of Cancer (Harper Perennial Modern Classics)

Surveys the most enduring ideas in mathematics, looks at how difficult theorems are solved, and offers brief profiles of famous mathematicians

### Great Moments in Mathematics Before 1650

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.

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## Introduction to Analysis

Written for junior and senior undergraduates, this remarkably clear and accessible treatment covers set theory, the real number system, metric spaces, continuous functions, Riemann integration, multiple integrals, and more. 1968 edition.

## Journey Through Genius

This book examines the huge scope of mathematical areas explored and developed by Leonhard Euler.

## Journey Through Genius

The Instant-Series Presents "Instant Genius" How to Think Like a Genius to Be One Instantly! When you hear the word "genius" - what immediately pops into your mind? Perhaps, people like Albert Einstein, Isaac Newton, Leonardo da Vinci, and Thomas Edison just to name a few. What did all these folks have? What was the common factor that made them a genius? And is possible for you to also be like them? Now what is a genius? Geniuses are, first and foremost, extraordinary individuals They are always somewhat ahead of their time, and their contributions to the world have shaped society into what we know it as of today with all the remarkable fleets of advanced achievements unheard of in the past - just look at how far we

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have come with modern medicine, science, technologies, etc. And geniuses have helped mankind evolved into more intelligent beings - pushing us to all strive for even greater possibilities. So how to become a genius? The widely-accepted notion is you're either born with a genius IQ or not; however, being a genius has less to do with your level of intelligence. Everybody has their own form of genius. The key is how to unlock that inner genius of yours. Within "Instant Genius":

- \* How to easily create a custom "genius trigger button" step-by-step, so you can activate it to turn on your full-intellectual mental capacity at will, at anywhere, and at anytime.
- \* How to channel your inner genius through the power of your subconscious mind, by doing the "subconscious self-session" technique to open doors to new ways of thinking.
- \* How to use personalized "visual mental imprints" as your sources of inspirations and motivations to spark your creative genius to generate unlimited innovative ideas.
- \* How to develop genius reflexes to handle any complex problem and come up with ingenious solution to have people look up to you, always wanting to hear what you have to say.
- \* How to optimize your mind to work in relentless genius mode with full concentration and inexhaustible energy where obstacles no longer exist, through an in-depth "4-stages process" you can implement whenever you want.
- \* Plus, custom practical "how-to" strategies, techniques, applications and exercises on how to think like a genius. and much more.

All of us has the potential to be our own geniuses. You just only need to be guided on how to unleash that genius brain power within you - to finally realize what you're truly capable of. You will be amazed and even surprised yourself.

## The History of Mathematics

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Book description to come.

## The Calculus Gallery

What do Bach's compositions, Rubik's Cube, the way we choose our mates, and the physics of subatomic particles have in common? All are governed by the laws of symmetry, which elegantly unify scientific and artistic principles. Yet the mathematical language of symmetry—known as group theory—did not emerge from the study of symmetry at all, but from an equation that couldn't be solved. For thousands of years mathematicians solved progressively more difficult algebraic equations, until they encountered the quintic equation, which resisted solution for three centuries. Working independently, two great prodigies ultimately proved that the quintic cannot be solved by a simple formula. These geniuses, a Norwegian named Niels Henrik Abel and a romantic Frenchman named Évariste Galois, both died tragically young. Their incredible labor, however, produced the origins of group theory. The first extensive, popular account of the mathematics of symmetry and order, *The Equation That Couldn't Be Solved* is told not through abstract formulas but in a beautifully written and dramatic account of the lives and work of some of the greatest and most intriguing mathematicians in history.

## The Genius of Alexander the Great

Exciting, hands-on approach to understanding fundamental underpinnings of modern

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arithmetic, algebra, geometry and number systems examines their origins in early Egyptian, Babylonian, and Greek sources.

### What is Mathematics?

This New York Times bestseller "elegantly weaves evidence and insights . . . into a single, accessible historical narrative" (Bill Gates) and presents a captivating history of the universe -- from the Big Bang to dinosaurs to mass globalization and beyond. Most historians study the smallest slivers of time, emphasizing specific dates, individuals, and documents. But what would it look like to study the whole of history, from the big bang through the present day -- and even into the remote future? How would looking at the full span of time change the way we perceive the universe, the earth, and our very existence? These were the questions David Christian set out to answer when he created the field of "Big History," the most exciting new approach to understanding where we have been, where we are, and where we are going. In *Origin Story*, Christian takes readers on a wild ride through the entire 13.8 billion years we've come to know as "history." By focusing on defining events (thresholds), major trends, and profound questions about our origins, Christian exposes the hidden threads that tie everything together -- from the creation of the planet to the advent of agriculture, nuclear war, and beyond. With stunning insights into the origin of the universe, the beginning of life, the emergence of humans, and what the future might bring, *Origin Story* boldly reframes our place in the cosmos.

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### Math through the Ages: A Gentle History for Teachers and Others Expanded Second Edition

Eleanor of Aquitaine has been waiting in Heaven for a long time to be reunited with her second husband, Henry II of England. Finally, the day has come when Henry will be judged for admission--and while Eleanor waits, three people close to her during various times of her life join her, helping to distract her and providing a rich portrait of a remarkable woman in history.

### James and the Giant Peach

Great Moments in Mathematics: Before 1650 is the product of a series of lectures on the history of mathematics given by Howard Eves. He presents here, in chronological order, 20 "great moments in mathematics before 1650", which can be appreciated by anyone who enjoys mathematics. These wonderful lectures could be used as the basis of a course on the history of mathematics but can also serve as enrichment to any mathematics course. Included are lectures on the Pythagorean Theorem, Euclid's Elements, Archimedes (on the sphere), Diophantus, Omar Khayyam, and Fibonacci.

### Multipliers

Documents the calculation, numerical value, and use of the ratio from 2000 B.C. to the modern

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computer age, detailing social conditions in eras when progress was made

## Journey into Mathematics

After a violent mugging forever altered the way his brain works, the author, the first documented case of acquired savant syndrome with mathematical synesthesia, recounts how he overcame huge setbacks and embraced his unique gifts.

## The Historical Roots of Elementary Mathematics

The Challenge Built to Last, the defining management study of the nineties, showed how great companies triumph over time and how long-term sustained performance can be engineered into the DNA of an enterprise from the very beginning. But what about the company that is not born with great DNA? How can good companies, mediocre companies, even bad companies achieve enduring greatness? The Study For years, this question preyed on the mind of Jim Collins. Are there companies that defy gravity and convert long-term mediocrity or worse into long-term superiority? And if so, what are the universal distinguishing characteristics that cause a company to go from good to great? The Standards Using tough benchmarks, Collins and his research team identified a set of elite companies that made the leap to great results and sustained those results for at least fifteen years. How great? After the leap, the good-to-great companies generated cumulative stock returns that beat the general stock market by an

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average of seven times in fifteen years, better than twice the results delivered by a composite index of the world's greatest companies, including Coca-Cola, Intel, General Electric, and Merck. The Comparisons The research team contrasted the good-to-great companies with a carefully selected set of comparison companies that failed to make the leap from good to great. What was different? Why did one set of companies become truly great performers while the other set remained only good? Over five years, the team analyzed the histories of all twenty-eight companies in the study. After sifting through mountains of data and thousands of pages of interviews, Collins and his crew discovered the key determinants of greatness -- why some companies make the leap and others don't. The Findings The findings of the Good to Great study will surprise many readers and shed light on virtually every area of management strategy and practice. The findings include: Level 5 Leaders: The research team was shocked to discover the type of leadership required to achieve greatness. The Hedgehog Concept (Simplicity within the Three Circles): To go from good to great requires transcending the curse of competence. A Culture of Discipline: When you combine a culture of discipline with an ethic of entrepreneurship, you get the magical alchemy of great results. Technology Accelerators: Good-to-great companies think differently about the role of technology. The Flywheel and the Doom Loop: Those who launch radical change programs and wrenching restructurings will almost certainly fail to make the leap. "Some of the key concepts discerned in the study," comments Jim Collins, "fly in the face of our modern business culture and will, quite frankly, upset some people." Perhaps, but who can afford to ignore these findings?

Zero

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Norman Mailer, without a doubt the most important literary figure of his generation, here celebrates the genius of "the greatest living American writer" from an earlier generation in an extended essay of unequalled brilliance as well as in a generous selection from Miller's work to point the way to "the center of the power of his writing." --from front flap.

### Origin Story

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.

### American Prison

Bond and Keane explicate the elements of logical, mathematical argument to elucidate the meaning and importance of mathematical rigor. With definitions of concepts at their disposal, students learn the rules of logical inference, read and understand proofs of theorems, and write their own proofs all while becoming familiar with the grammar of mathematics and its style. In addition, they will develop an appreciation of the different methods of proof (contradiction,

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induction), the value of a proof, and the beauty of an elegant argument. The authors emphasize that mathematics is an ongoing, vibrant discipline its long, fascinating history continually intersects with territory still uncharted and questions still in need of answers. The authors extensive background in teaching mathematics shines through in this balanced, explicit, and engaging text, designed as a primer for higher- level mathematics courses. They elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers. Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.

### A Wrinkle in Time

More than three centuries after its creation, calculus remains a dazzling intellectual achievement and the gateway to higher mathematics. This book charts its growth and development by sampling from the work of some of its foremost practitioners, beginning with Isaac Newton and Gottfried Wilhelm Leibniz in the late seventeenth century and continuing to Henri Lebesgue at the dawn of the twentieth. Now with a new preface by the author, this book documents the evolution of calculus from a powerful but logically chaotic subject into one whose foundations are thorough, rigorous, and unflinching—a story of genius triumphing over some of the toughest, subtlest problems imaginable. In touring The Calculus Gallery, we can

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see how it all came to be.

## Beyond Infinity

Wall Street Journal Bestseller A thought-provoking, accessible, and essential exploration of why some leaders (‘‘Diminishers’’) drain capability and intelligence from their teams, while others (‘‘Multipliers’’) amplify it to produce better results. Including a foreword by Stephen R. Covey, as well the five key disciplines that turn smart leaders into genius makers, Multipliers is a must-read for everyone from first-time managers to world leaders.

## The Geography of Genius

This text is designed for the junior/senior mathematics major who intends to teach mathematics in high school or college. It concentrates on the history of those topics typically covered in an undergraduate curriculum or in elementary schools or high schools. At least one year of calculus is a prerequisite for this course. This book contains enough material for a 2 semester course but it is flexible enough to be used in the more common 1 semester course.

## The Genius of One

We live our lives according to what we value. When our values are not carefully considered

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and planned out, we live a life that is not ours but instead one that has been programmed and designed by others from our past. Understanding this great truth can bring us to a higher awareness of living. A Journey into Value Systems: Cracking the Genius Code seeks to help you turn your values, beliefs, emotions, and thoughts into organizing principles for your life. In this way, you can live a life defined by your highest excitements. Author Keith Thompson has developed a clear and clever way of explaining value systems, the higher mind, the subconscious mind, and the conscious mind to connect you back to the spirit of our desires. Take a personal journey to learn about your core values and belief systems, enabling you to move out of unwanted values and into a life of true happiness. This self-improvement guide offers a discovery workbook for your personal and professional life, helps you to understand and, if needed, change your beliefs and values.

### Euler

" A global survey of the history of mathematics, this newly corrected and updated collection of 32 highly readable essays features contributions by such distinguished educators as Carl Boyer and Morris Kline. Fascinating articles explore studies by Fibonacci, Descartes, Cardano, Kepler, Galileo, Pascal, Newton, Euler, and others. Suitable for readers with no background in math"--

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