

The University Press Group

Mathematics

University of California Press
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Complete Catalogue

Spring 2021



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Columbia University Press

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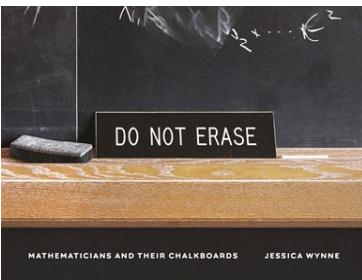
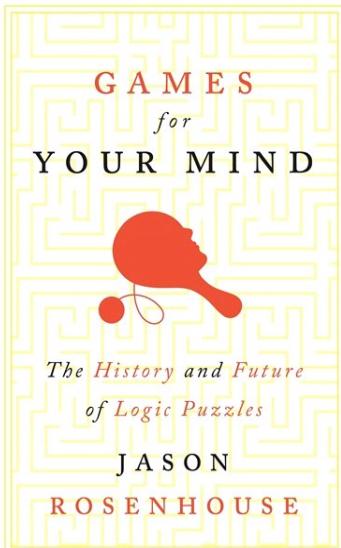
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Games for Your Mind

The History and Future of Logic Puzzles
Jason Rosenhouse

A lively and engaging look at logic puzzles and their role in recreation, mathematics, and philosophy

Logic puzzles were first introduced to the public by Lewis Carroll in the late nineteenth century and have been popular ever since. Games like Sudoku and Mastermind are fun and engrossing recreational activities, but they also share deep foundations in mathematical logic and are worthy of serious intellectual inquiry. *Games for Your Mind* explores the history and future of logic puzzles while enabling you to test your skill against a variety of puzzles yourself.

In this informative and entertaining book, Jason Rosenhouse begins by introducing readers to logic and logic puzzles and goes on to reveal the rich history of these puzzles. He shows how Carroll's puzzles presented Aristotelian logic as a game for children, yet also informed his scholarly work on logic. He reveals how another pioneer of logic puzzles, Raymond Smullyan, drew on classic puzzles about liars and truth tellers to illustrate Kurt Gödel's theorems and illuminate profound questions in mathematical logic. Rosenhouse then presents a new vision for the future of logic puzzles based on nonclassical logic, which is used today in computer science and automated reasoning to manipulate large and sometimes contradictory sets of data.

Featuring a wealth of sample puzzles ranging from simple to extremely challenging, this lively and engaging book brings together many of the most ingenious puzzles ever devised, including the "Hardest Logic Puzzle Ever," metapuzzles, paradoxes, and the logic puzzles in detective stories.

9780691174075
\$29.95 | £25.00
Hardback
352 pages | 155.45mm : 234.95mm
2020

Mathematics / Logic
Princeton University Press

Do Not Erase

Mathematicians and Their Chalkboards
Jessica Wynne

A photographic exploration of mathematicians' chalkboards

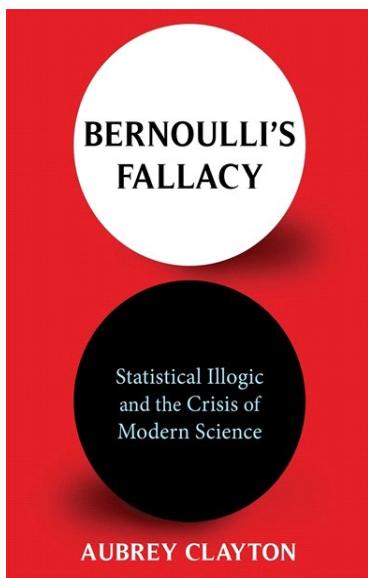
"A mathematician, like a painter or poet, is a maker of patterns," wrote the British mathematician G. H. Hardy. In *Do Not Erase*, photographer Jessica Wynne presents remarkable examples of this idea through images of mathematicians' chalkboards. While other fields have replaced chalkboards with whiteboards and digital presentations, mathematicians remain loyal to chalk for puzzling out their ideas and communicating their research. Wynne offers more than one hundred stunning photographs of these chalkboards, gathered from a diverse group of mathematicians around the world. The photographs are accompanied by essays from each mathematician, reflecting on their work and processes. Together, pictures and words provide an illuminating meditation on the unique relationships among mathematics, art, and creativity.

The mathematicians featured in this collection comprise exciting new voices alongside established figures, including Sun-Yung Alice Chang, Alain Connes, Misha Gromov, Andre Neves, Kasso Okoudjou, Peter Shor, Christina Sormani, Terence Tao, Claire Voisin, and many others. The companion essays give insights into how the chalkboard serves as a special medium for mathematical expression. The volume also includes an introduction by the author, an afterword by *New Yorker* writer Alec Wilkinson, and biographical information for each contributor.

Do Not Erase is a testament to the myriad ways that mathematicians use their chalkboards to reveal the conceptual and visual beauty of their discipline—shapes, figures, formulas, and conjectures created through imagination, argument, and speculation.

9780691199221
\$35.00 | £30.00
Hardback
240 pages
2021

Mathematics / General
Princeton University Press



Bernoulli's Fallacy

Statistical Illogic and the Crisis of Modern Science

Aubrey Clayton

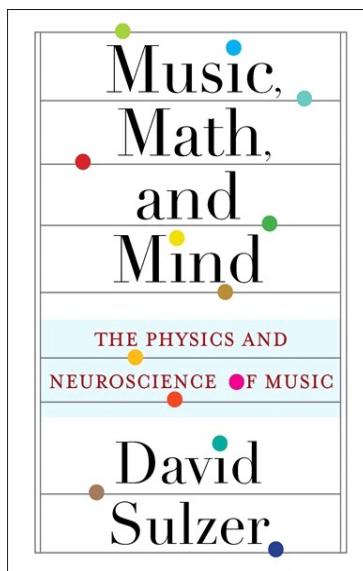
There is a logical flaw in the statistical methods used across experimental science. This fault is not just a minor academic quibble: it underlies a reproducibility crisis now threatening entire disciplines. In an increasingly data-reliant culture, this same deeply rooted error shapes decisions in medicine, law, and public policy with profound consequences. The foundation of the problem is a misunderstanding of probability and our ability to make inferences from data.

Aubrey Clayton traces the history of how statistics went astray, beginning with the groundbreaking work of the seventeenth-century mathematician Jacob Bernoulli and winding through gambling, astronomy, and genetics. He recounts the feuds among rival schools of statistics, exploring the surprisingly human problems that gave rise to the discipline and the all-too-human shortcomings that derailed it. Clayton highlights how influential nineteenth- and twentieth-century figures developed a statistical methodology they claimed was purely objective in order to silence critics of their political agendas, including eugenics.

Clayton provides a clear account of the mathematics and logic of probability, conveying complex concepts accessibly for readers interested in the statistical methods that frame our understanding of the world. He contends that we need to take a Bayesian approach—incorporating prior knowledge when reasoning with incomplete information—in order to resolve the crisis. Ranging across math, philosophy, and culture, *Bernoulli's Fallacy* explains why something has gone wrong with how we use data—and how to fix it.

9780231199940
\$34.95 | £30.00
Hardback
344 pages | 155.575mm : 234.95mm
2021

Mathematics / History & Philosophy
Columbia University Press



Music, Math, and Mind

The Physics and Neuroscience of Music

David Sulzer

Why does a clarinet play at lower pitches than a flute? What does it mean for sounds to be in or out of tune? How are emotions carried by music? Do other animals perceive sound like we do? How might a musician use math to come up with new ideas?

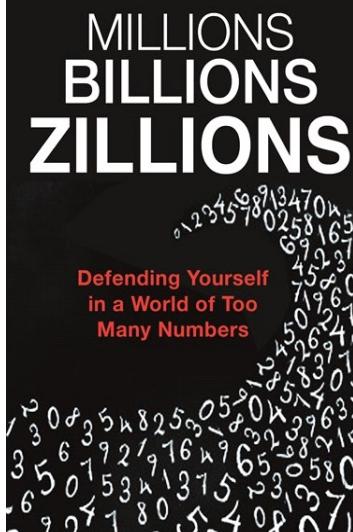
This book offers a lively exploration of the mathematics, physics, and neuroscience that underlie music in a way that readers without scientific background can follow. David Sulzer, also known in the musical world as Dave Soldier, explains why the perception of music encompasses the physics of sound, the functions of the ear and deep-brain auditory pathways, and the physiology of emotion. He delves into topics such as the math by which musical scales, rhythms, tuning, and harmonies are derived, from the days of Pythagoras to technological manipulation of sound waves. Sulzer ranges from styles from around the world to canonical composers to hip-hop, the history of experimental music, and animal sound by songbirds, cetaceans, bats, and insects. He makes accessible a vast range of material, helping readers discover the universal principles behind the music they find meaningful.

Written for musicians and music lovers with any level of science and math proficiency, including none, *Music, Math, and Mind* demystifies how music works while testifying to its beauty and wonder.

9780231193795
\$28.00 | £22.00
Paperback
304 pages | 152.4mm : 228.6mm
2021

Mathematics / General
Columbia University Press

BRIAN W. KERNIGHAN



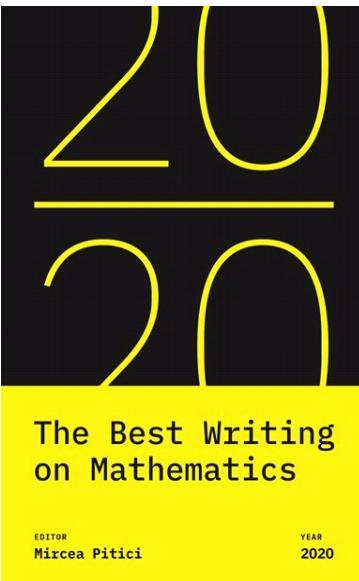
Millions, Billions, Zillions

Defending Yourself in a World of Too Many Numbers

Brian W. Kernighan

An essential guide to recognizing bogus numbers and misleading data

Numbers are often intimidating, confusing, and even deliberately deceptive—especially when they are really big. The media loves to report on millions, billions, and trillions, but frequently makes basic mistakes or presents such numbers in misleading ways. And misunderstanding numbers can have serious consequences, since they can deceive us in many of our most important decisions, including how to vote, what to buy, and whether to make a financial investment. In this short, accessible, enlightening, and entertaining book, Brian Kernighan teaches anyone—even diehard math-phobes—how to demystify the numbers that assault us every day. Giving you the simple tools you need to avoid being fooled by dubious numbers, *Millions, Billions, Zillions* is an essential survival guide for a world drowning in big—and often bad—data.



The Best Writing on Mathematics 2020

Mircea Pitici

The year's finest mathematical writing from around the world

This annual anthology brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, *The Best Writing on Mathematics 2020* makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday aspects of math, and take readers behind the scenes of today's hottest mathematical debates.

Here, Steven Strogatz reveals how calculus drives advances in virology, Paul Thagard argues that the power of mathematics stems from its combination of realistic and fictional qualities, and Erica Klarreich describes how Hao Huang used the combinatorics of cube nodes to solve a longstanding problem in computer science. In other essays, John Baez tells how he discovered the irresistible attractions of algebraic geometry, Mark Colyvan compares the radically different explanatory practices of mathematics and science, and Boris Odehnal reviews some surprising properties of multidimensional geometries. And there's much, much more.

In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor.

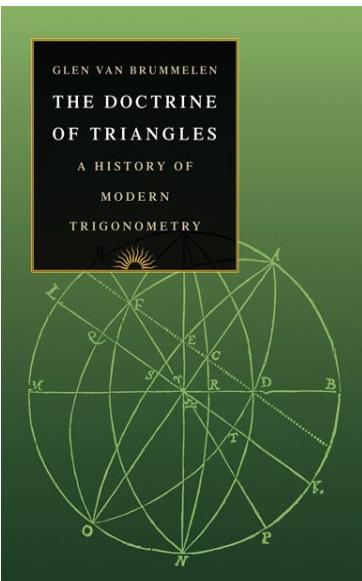
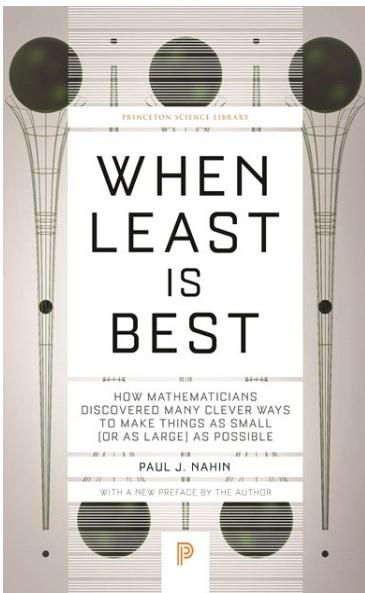
This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

9780691209098
\$16.95 | £13.99
Paperback
176 pages | 114.3mm : 190.5mm
2020

Mathematics / Counting & Numeration
Princeton University Press

9780691207568
\$24.95 | £20.00
Paperback
264 pages | 142mm : 217mm
2020

Mathematics / Essays
The Best Writing on Mathematics
Princeton University Press



When Least Is Best

How Mathematicians Discovered Many Clever Ways to Make Things as Small (or as Large) as Possible

Paul J. Nahin

A mathematical journey through the most fascinating problems of extremes and how to solve them

What is the best way to photograph a speeding bullet? How can lost hikers find their way out of a forest? Why does light move through glass in the least amount of time possible? *When Least Is Best* combines the mathematical history of extrema with contemporary examples to answer these intriguing questions and more. Paul Nahin shows how life often works at the extremes—with values becoming as small (or as large) as possible—and he considers how mathematicians over the centuries, including Descartes, Fermat, and Kepler, have grappled with these problems of minima and maxima. Throughout, Nahin examines entertaining conundrums, such as how to build the shortest bridge possible between two towns, how to vary speed during a race, and how to make the perfect basketball shot. Moving from medieval writings and modern calculus to the field of optimization, the engaging and witty explorations of *When Least Is Best* will delight math enthusiasts everywhere.

9780691218762
\$18.95 | £15.99
Paperback
392 pages | 139.7mm : 215.9mm
2021

Mathematics / History & Philosophy
Princeton Science Library
Princeton University Press

The Doctrine of Triangles

A History of Modern Trigonometry

Glen Van Brummelen

An interdisciplinary history of trigonometry from the mid-sixteenth century to the early twentieth

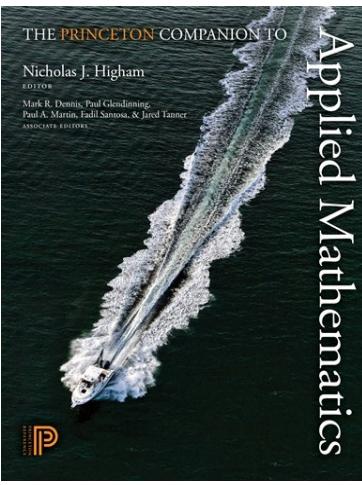
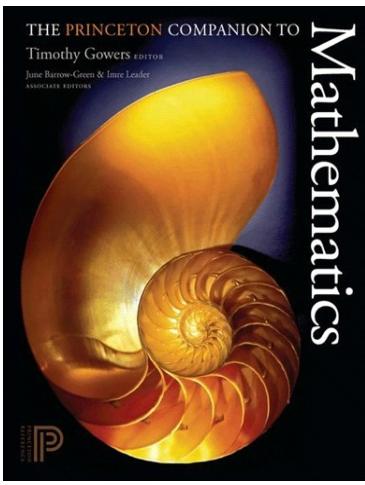
The Doctrine of Triangles offers an interdisciplinary history of trigonometry that spans four centuries, starting in 1550 and concluding in the 1900s. Glen Van Brummelen tells the story of trigonometry as it evolved from an instrument for understanding the heavens to a practical tool, used in fields such as surveying and navigation. In Europe, China, and America, trigonometry aided and was itself transformed by concurrent mathematical revolutions, as well as the rise of science and technology.

Following its uses in mid-sixteenth-century Europe as the "foot of the ladder to the stars" and the mathematical helpmate of astronomy, trigonometry became a ubiquitous tool for modeling various phenomena, including animal populations and sound waves. In the late sixteenth century, trigonometry increasingly entered the physical world through the practical disciplines, and its societal reach expanded with the invention of logarithms. Calculus shifted mathematical reasoning from geometric to algebraic patterns of thought, and trigonometry's participation in this new mathematical analysis grew, encouraging such innovations as complex numbers and non-Euclidean geometry. Meanwhile in China, trigonometry was evolving rapidly too, sometimes merging with indigenous forms of knowledge, and with Western discoveries. In the nineteenth century, trigonometry became even more integral to science and industry as a fundamental part of the science and engineering toolbox, and a staple subject in high school classrooms.

A masterful combination of scholarly rigor and compelling narrative, *The Doctrine of Triangles* brings trigonometry's rich historical past full circle into the modern era.

9780691179414
\$29.95 | £25.00
Hardback
392 pages | 155.45mm : 234.95mm
2021

Mathematics / Trigonometry
Princeton University Press



The Princeton Companion to Mathematics

Timothy Gowers, June Barrow-Green, Imre Leader

This is a one-of-a-kind reference for anyone with a serious interest in mathematics. Edited by Timothy Gowers, a recipient of the Fields Medal, it presents nearly two hundred entries, written especially for this book by some of the world's leading mathematicians, that introduce basic mathematical tools and vocabulary; trace the development of modern mathematics; explain essential terms and concepts; examine core ideas in major areas of mathematics; describe the achievements of scores of famous mathematicians; explore the impact of mathematics on other disciplines such as biology, finance, and music--and much, much more.

Unparalleled in its depth of coverage, *The Princeton Companion to Mathematics* surveys the most active and exciting branches of pure mathematics. Accessible in style, this is an indispensable resource for undergraduate and graduate students in mathematics as well as for researchers and scholars seeking to understand areas outside their specialties.

- Features nearly 200 entries, organized thematically and written by an international team of distinguished contributors
- Presents major ideas and branches of pure mathematics in a clear, accessible style
- Defines and explains important mathematical concepts, methods, theorems, and open problems
- Introduces the language of mathematics and the goals of mathematical research
- Covers number theory, algebra, analysis, geometry, logic, probability, and more
- Traces the history and development of modern mathematics
- Profiles more than ninety-five mathematicians who influenced those working today
- Explores the influence of mathematics on other disciplines

9780691118802
\$99.50 | £82.00
Hardback
1,056 pages | 203.2mm : 254mm
2008

Mathematics / Reference
Princeton University Press

The Princeton Companion to Applied Mathematics

Nicholas J. Higham, Mark R. Dennis, Paul A. Martin

The must-have compendium on applied mathematics

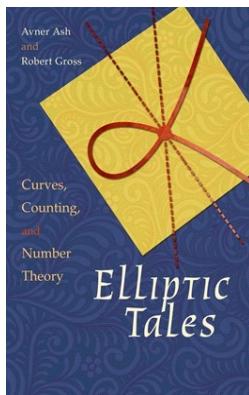
This is the most authoritative and accessible single-volume reference book on applied mathematics. Featuring numerous entries by leading experts and organized thematically, it introduces readers to applied mathematics and its uses; explains key concepts; describes important equations, laws, and functions; looks at exciting areas of research; covers modeling and simulation; explores areas of application; and more.

Modeled on the popular *Princeton Companion to Mathematics*, this volume is an indispensable resource for undergraduate and graduate students, researchers, and practitioners in other disciplines seeking a user-friendly reference book on applied mathematics.

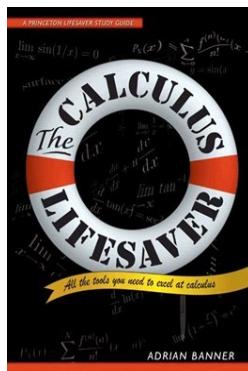
- Features nearly 200 entries organized thematically and written by an international team of distinguished contributors
- Presents the major ideas and branches of applied mathematics in a clear and accessible way
- Explains important mathematical concepts, methods, equations, and applications
- Introduces the language of applied mathematics and the goals of applied mathematical research
- Gives a wide range of examples of mathematical modeling
- Covers continuum mechanics, dynamical systems, numerical analysis, discrete and combinatorial mathematics, mathematical physics, and much more
- Explores the connections between applied mathematics and other disciplines
- Includes suggestions for further reading, cross-references, and a comprehensive index

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\$99.50 | £82.00
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1,032 pages | 218mm : 266mm
2015

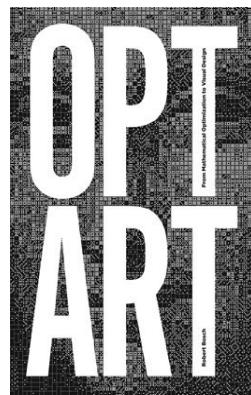
Mathematics / Reference
Princeton University Press



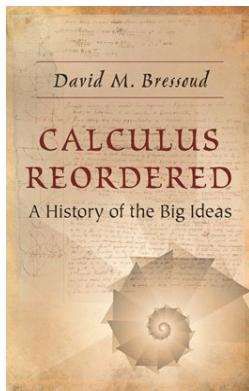
Elliptic Tales
Curves, Counting, and Number Theory
Avner Ash, Robert Gross
9780691163505
\$16.95 | £13.99
Paperback | 2014
Mathematics
Princeton University Press



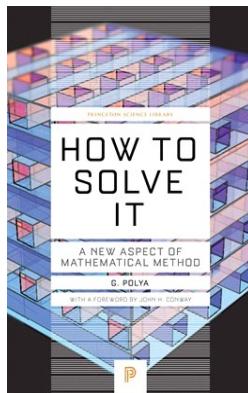
The Calculus Lifesaver
All the Tools You Need to Excel at Calculus
Adrian Banner
9780691130880
\$24.95 | £20.00
Paperback | 2007
Mathematics
Princeton Lifesaver Study Guides
Princeton University Press



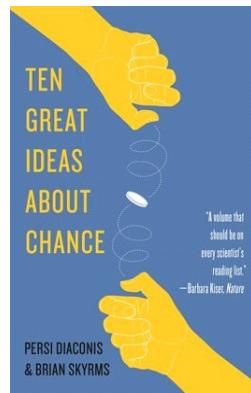
Opt Art
From Mathematical Optimization to Visual Design
Robert Bosch
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\$29.95 | £25.00
Hardback | 2019
MATHEMATICS
Princeton University Press



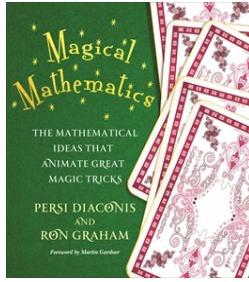
Calculus Reordered
A History of the Big Ideas
David M. Bressoud
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Hardback | 2019
Mathematics
Princeton University Press



How to Solve It
A New Aspect of Mathematical Method
John H. Conway, G. Polya
9780691164076
\$19.95 | £16.99
Paperback | 2014
Mathematics
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Princeton University Press



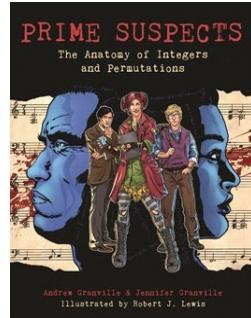
Ten Great Ideas about Chance
Persi Diaconis, Brian Skyrms
9780691196398
\$17.95 | £14.99
Paperback | 2019
Mathematics
Princeton University Press



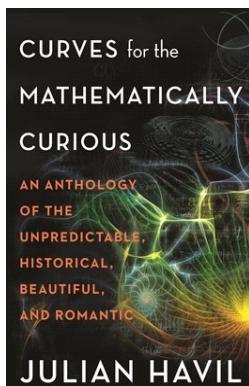
Magical Mathematics
The Mathematical Ideas That Animate Great Magic Tricks
Persi Diaconis, Ron Graham, Martin Gardner
9780691169774
\$19.95 | £16.99
Paperback | 2015
Mathematics
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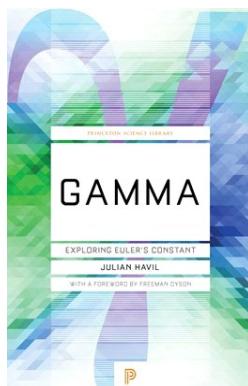
Mathematics and Art
A Cultural History
Lynn Gamwell, Neil deGrasse Tyson
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Hardback | 2015
Art
Princeton University Press



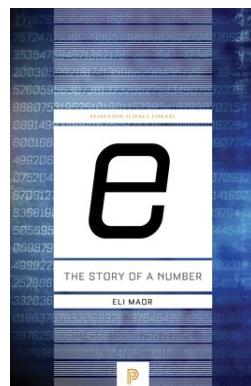
Prime Suspects
The Anatomy of Integers and Permutations
Andrew Granville, Jennifer Granville
9780691149158
\$22.95 | £18.99
Paperback | 2019
Mathematics
Princeton University Press



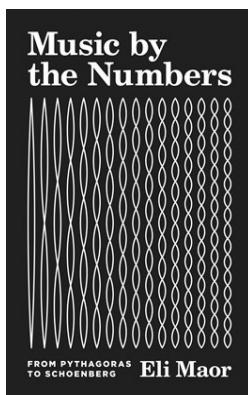
Curves for the Mathematical Curious
An Anthology of the Unpredictable, Historical, Beautiful, and Romantic
Julian Havil
9780691180052
\$29.95 | £25.00
Hardback | 2019
Mathematics
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Gamma
Exploring Euler's Constant
Julian Havil, Freeman Dyson
9780691178103
\$18.95 | £15.99
Paperback | 2017
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Princeton University Press



e: The Story of a Number
The Story of a Number
Eli Maor
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\$16.95 | £13.99
Paperback | 2015
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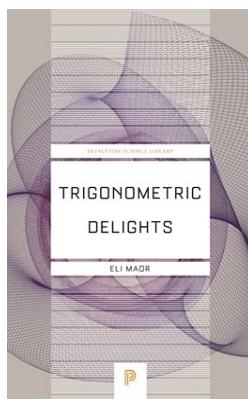
Music by the Numbers

Music by the Numbers

From Pythagoras to Schoenberg

Eli Maor

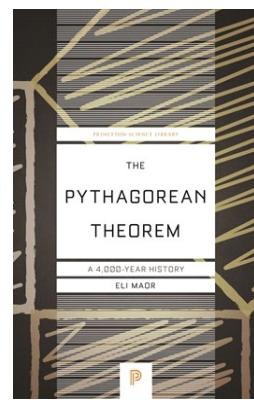
9780691202969
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Paperback | 2020
Mathematics
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Trigonometric Delights

Eli Maor

9780691202198
\$17.95 | £14.99
Paperback | 2020
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Princeton Science Library
Princeton University Press

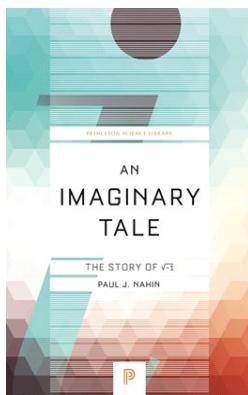


The Pythagorean Theorem

A 4,000-Year History

Eli Maor

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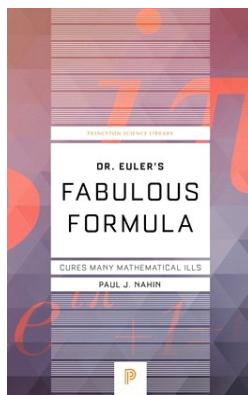


An Imaginary Tale

The Story of $\sqrt{-1}$

Paul J. Nahin

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\$16.95 | £13.99
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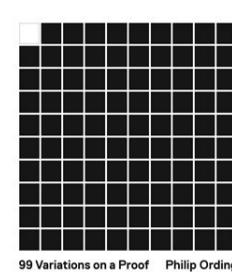


Dr. Euler's Fabulous Formula

Cures Many Mathematical Ills

Paul J. Nahin

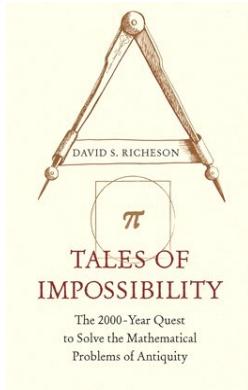
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Paperback | 2017
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99 Variations on a Proof

Philip Ording

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\$24.95 | £20.00
Hardback | 2019
Mathematics
Princeton University Press

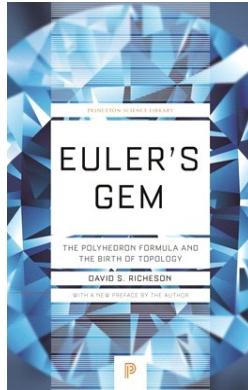


Tales of Impossibility

The 2000-Year Quest to Solve the Mathematical Problems of Antiquity

David S. Richeson

9780691192963
\$29.95 | £25.00
Hardback | 2019
Mathematics
Princeton University Press

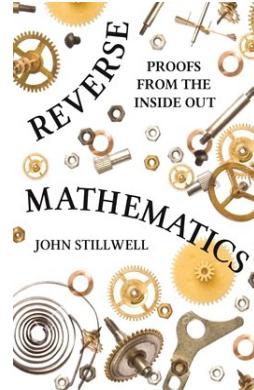


Euler's Gem

The Polyhedron Formula and the Birth of Topology

David S. Richeson

9780691191379
\$19.95 | £16.99
Paperback | 2019
Mathematics
Princeton Science Library
Princeton University Press

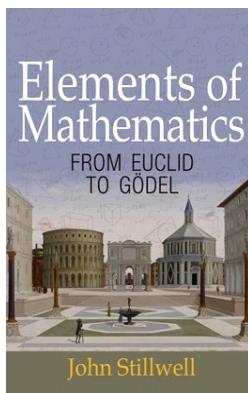


Reverse Mathematics

Proofs from the Inside Out

John Stillwell

9780691196411
\$18.95 | £15.99
Paperback | 2019
Mathematics
Princeton University Press

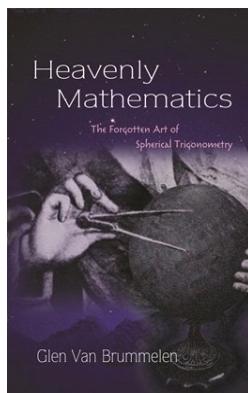


Elements of Mathematics

From Euclid to Gödel

John Stillwell

9780691178547
\$21.95 | £18.99
Paperback | 2017
Mathematics
Princeton University Press



Heavenly Mathematics

The Forgotten Art of Spherical Trigonometry

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