

The University Press Group



# Mathematics

University of California Press  
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Princeton University Press

**Complete Catalogue**

Autumn 2020



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[press.princeton.edu](http://press.princeton.edu)

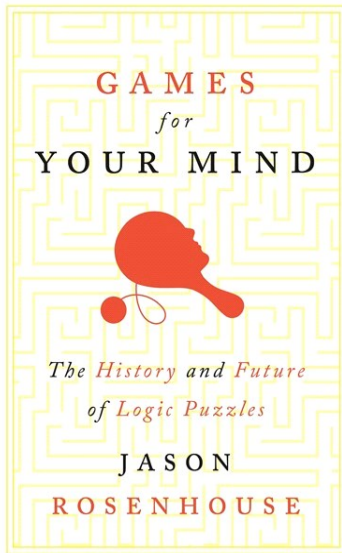
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## Games for Your Mind

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**

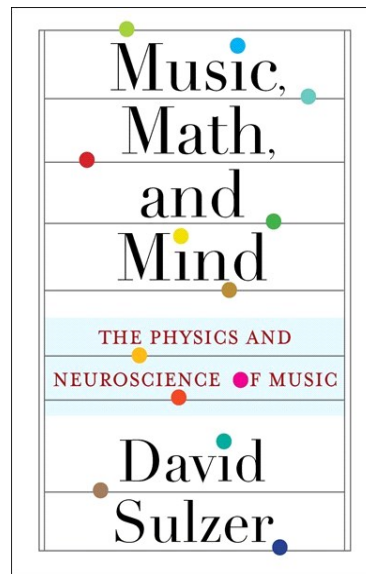
Logic puzzles were first introduced to the public by Lewis Carroll in the late nineteenth century and have been popular ever since. Games like Sudoku and Mastermind are fun and engrossing recreational activities, but they also share deep foundations in mathematical logic and are worthy of serious intellectual 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  
456 pages | 155.45mm : 234.95mm  
November 2020

Mathematics / Logic  
**Princeton University Press**



## Music, Math, and Mind

The Physics and Neuroscience of Music

**David Sulzer**

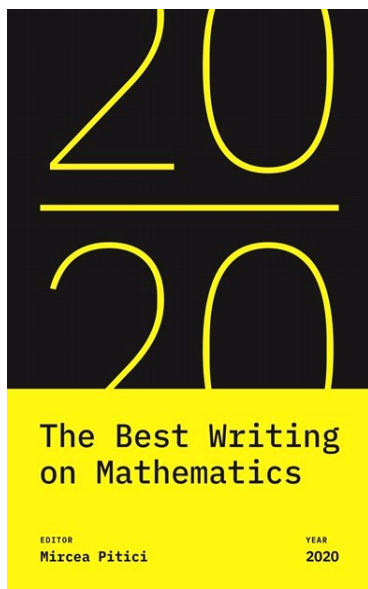
Why does a clarinet play at lower pitches than a flute? What does it mean for sounds to be in or out of tune? How are emotions carried by music? Do other animals perceive sound like we do? How might a musician use math to come up with new ideas?

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  
272 pages | 152.4mm : 228.6mm  
2021

Mathematics / General  
**Columbia University Press**



## 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.

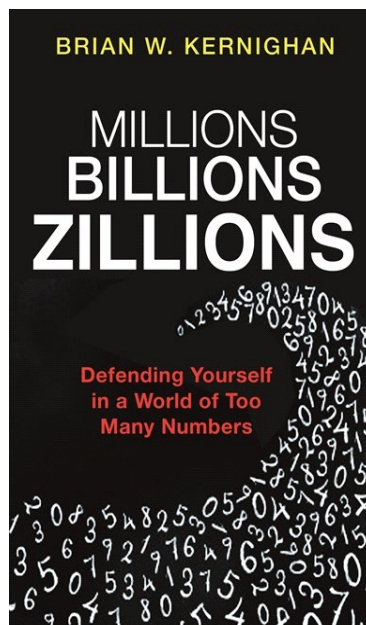
Here, Steven Strogatz reveals how calculus drives advances in virology, Paul Thagard argues that the power of mathematics stems from its combination of realistic and fictional qualities, and Erica Klarreich describes how Hao Huang used the combinatorics of cube nodes to solve a longstanding problem in 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 Odehnl 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.

9780691207568  
\$24.95 | £22.00  
Paperback  
290 pages | 140mm : 216mm  
November 2020

Mathematics / Essays  
The Best Writing on Mathematics  
Princeton University Press



## Millions, Billions, Zillions

Defending Yourself in a World of Too Many Numbers

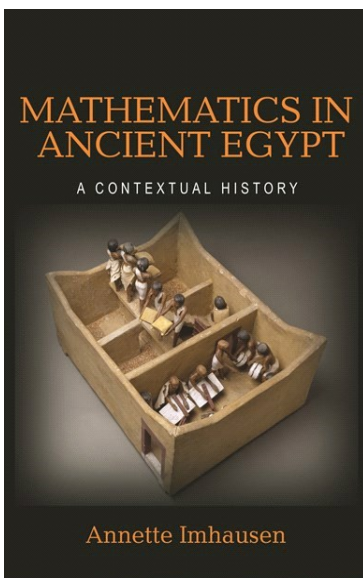
Brian W. Kernighan

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.

9780691209098  
\$16.95 | £13.99  
Paperback  
176 pages | 114mm : 190mm  
November 2020

Mathematics / Counting & Numeration  
Princeton University Press



## Mathematics in Ancient Egypt

A Contextual History

Annette Imhausen

A survey of ancient Egyptian mathematics across three thousand years

*Mathematics in Ancient Egypt* traces the development of Egyptian mathematics, from the end of the fourth millennium BC—and the earliest hints of writing and number notation—to the end of the pharaonic period in Greco-Roman times. Drawing from mathematical texts, architectural drawings, administrative documents, and other sources, Annette Imhausen surveys three thousand years of Egyptian history to present an integrated picture of theoretical mathematics in relation to the daily practices of Egyptian life and social structures.

Imhausen shows that from the earliest beginnings, pharaonic civilization used numerical techniques to efficiently control and use their material resources and labor. Even during the Old Kingdom, a variety of metrological systems had already been devised. By the Middle Kingdom, procedures had been established to teach mathematical techniques to scribes in order to make them proficient administrators for their king. Imhausen looks at counterparts to the notation of zero, suggests an explanation for the evolution of unit fractions, and analyzes concepts of arithmetic techniques. She draws connections and comparisons to Mesopotamian mathematics, examines which individuals in Egyptian society held mathematical knowledge, and considers which scribes were trained in mathematical ideas and why.

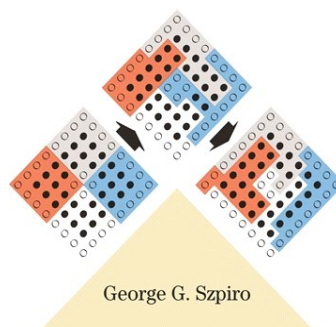
Of interest to historians of mathematics, mathematicians, Egyptologists, and all those curious about Egyptian culture, *Mathematics in Ancient Egypt* sheds new light on a civilization's unique mathematical evolution.

9780691209074  
\$35.00 | £30.00  
Paperback  
248 pages | 155.57mm : 234.95mm  
September 2020

Mathematics / History & Philosophy  
Princeton University Press

## NUMBERS RULE

The Vexing Mathematics of Democracy,  
from Plato to the Present



## Numbers Rule

The Vexing Mathematics of Democracy, from  
Plato to the Present

George Szpiro

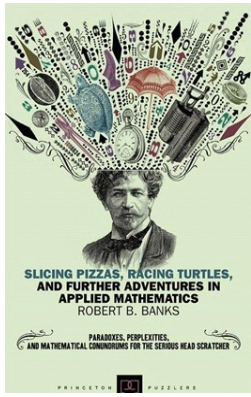
Since the very birth of democracy in ancient Greece, the simple act of voting has given rise to mathematical paradoxes that have puzzled some of the greatest philosophers, statesmen, and mathematicians. *Numbers Rule* traces the epic quest by these thinkers to create a more perfect democracy and adapt to the ever-changing demands that each new generation places on our democratic institutions.

In a sweeping narrative that combines history, biography, and mathematics, George Szpiro details the fascinating lives and big ideas of great minds such as Plato, Pliny the Younger, Ramon Llull, Pierre Simon Laplace, Thomas Jefferson, Alexander Hamilton, John von Neumann, and Kenneth Arrow, among many others. Each chapter in this riveting book tells the story of one or more of these visionaries and the problem they sought to overcome, like the Marquis de Condorcet, the eighteenth-century French nobleman who demonstrated that a majority vote in an election might not necessarily result in a clear winner. Szpiro takes readers from ancient Greece and Rome to medieval Europe, from the founding of the American republic and the French Revolution to today's high-stakes elective politics. He explains how mathematical paradoxes and enigmas can crop up in virtually any voting arena, from electing a class president, a pope, or prime minister to the apportionment of seats in Congress.

*Numbers Rule* describes the trials and triumphs of the thinkers down through the ages who have dared the odds in pursuit of a just and equitable democracy.

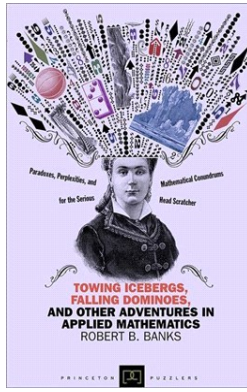
9780691209081  
\$18.95 | £15.99  
Paperback  
240 pages | 155.57mm : 234.95mm  
October 2020

Mathematics / History & Philosophy  
Princeton University Press



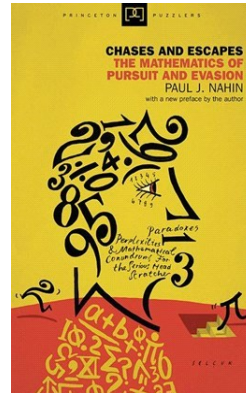
### Slicing Pizzas, Racing Turtles, and Further Adventures in Applied Mathematics

Robert B. Banks  
9780691154992  
\$18.95 | £15.99  
Paperback | 2012  
Mathematics  
Princeton Puzzlers  
Princeton University Press



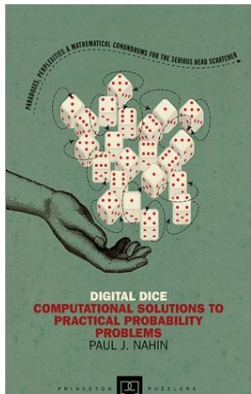
### Towing Icebergs, Falling Dominoes, and Other Adventures in Applied Mathematics

Robert B. Banks  
9780691158181  
\$16.95 | £13.99  
Paperback | 2013  
Mathematics  
Princeton Puzzlers  
Princeton University Press



### Chases and Escapes

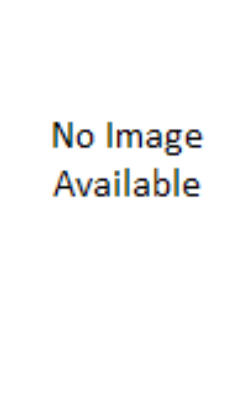
The Mathematics of Pursuit and Evasion  
Paul J. Nahin  
9780691155012  
\$18.95 | £15.99  
Paperback | 2012  
Mathematics  
Princeton Puzzlers  
Princeton University Press



### Digital Dice

Computational Solutions to Practical Probability Problems

Paul J. Nahin  
9780691158211  
\$18.95 | £15.99  
Paperback | 2013  
Mathematics  
Princeton Puzzlers  
Princeton University Press



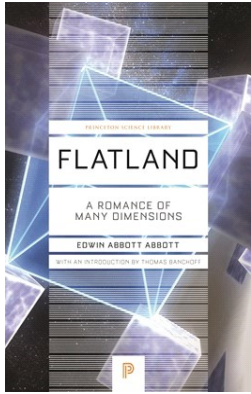
### Duelling Idiots and Other Probability Puzzlers

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\$18.95 | £15.99  
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### Across the Board

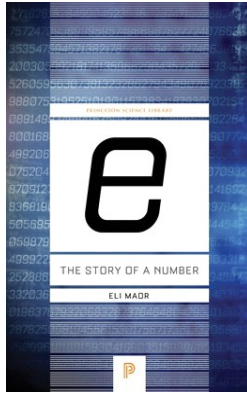
The Mathematics of Chessboard Problems  
John J. Watkins  
9780691154985  
\$18.95 | £15.99  
Paperback | 2012  
Mathematics  
Princeton Puzzlers  
Princeton University Press



### Flatland

A Romance of Many Dimensions

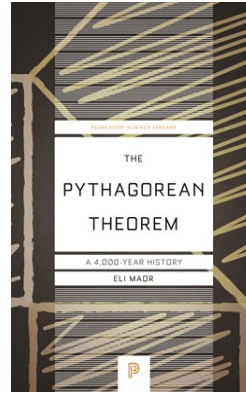
Edwin Abbott Abbott, Thomas Banchoff  
9780691165554  
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### e: The Story of a Number

The Story of a Number

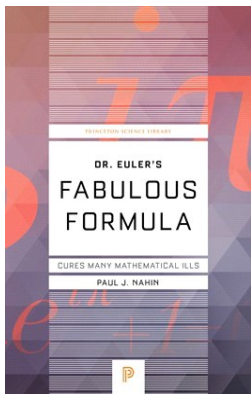
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### The Pythagorean Theorem

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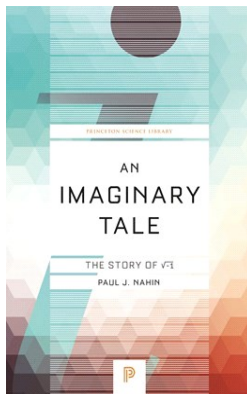
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Paperback | 2019  
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### Dr. Euler's Fabulous Formula

Cures Many Mathematical Ills

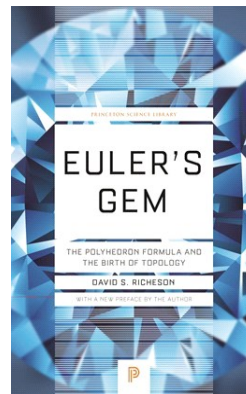
Paul J. Nahin  
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Mathematics  
Princeton Science Library  
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### An Imaginary Tale

The Story of  $\sqrt{-1}$

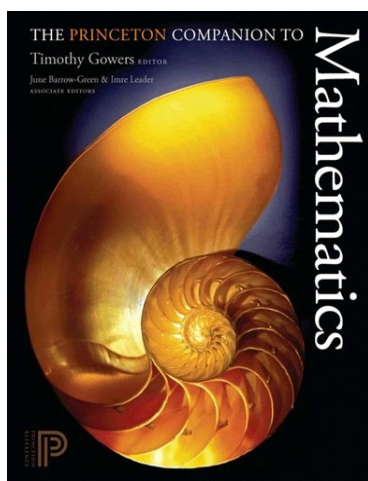
Paul J. Nahin  
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### Euler's Gem

The Polyhedron Formula and the Birth of Topology

David S. Richeson  
9780691191379  
\$19.95 | £16.99  
Paperback | 2019  
Mathematics  
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Princeton University Press



## The Princeton Companion to Mathematics

**Timothy Gowers, June Barrow-Green, Imre Leader**

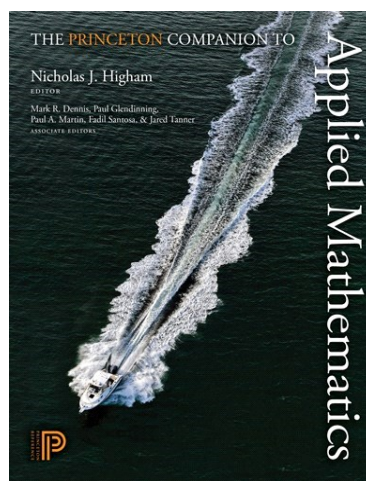
This is a one-of-a-kind reference for anyone with a serious interest in mathematics. Edited by Timothy Gowers, a recipient of the Fields Medal, it presents nearly two hundred entries, written especially for this book by some of the world's leading mathematicians, that introduce basic mathematical tools 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 Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner**

### The must-have compendium on applied mathematics

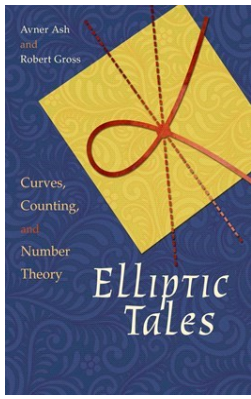
This is the most authoritative and accessible single-volume reference book on applied mathematics. Featuring numerous entries by leading experts and organized thematically, it introduces readers to applied mathematics and its uses; explains key concepts; describes important equations, laws, and functions; 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

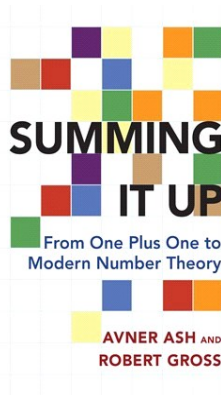
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2015

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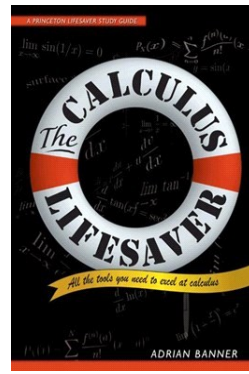
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**Avner Ash, Robert  
Gross**

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Mathematics  
**Princeton  
University Press**



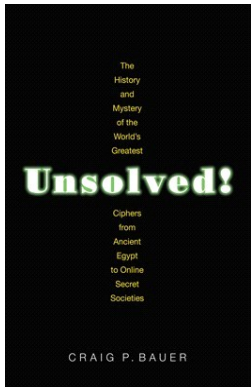
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Gross**  
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**Princeton  
University Press**



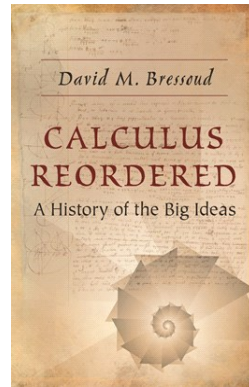
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**Craig P. Bauer**  
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Computers  
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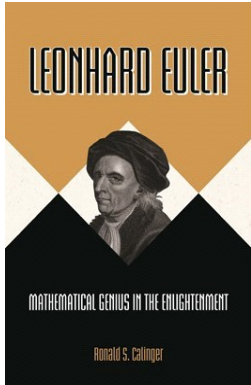
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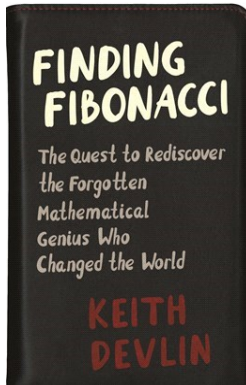
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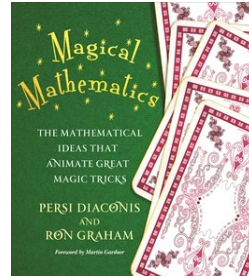
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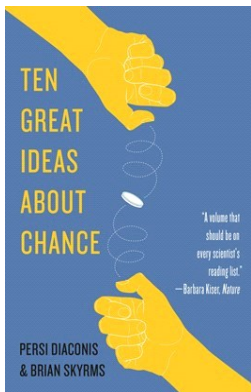
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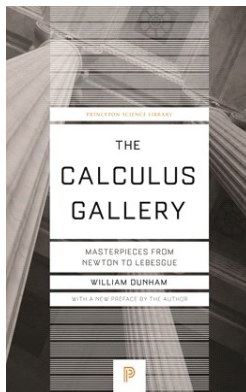
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**Persi Diaconis,  
Ron Graham,  
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Paperback | 2015  
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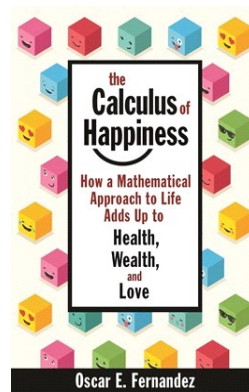
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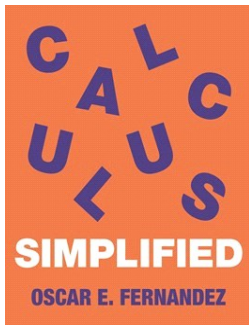
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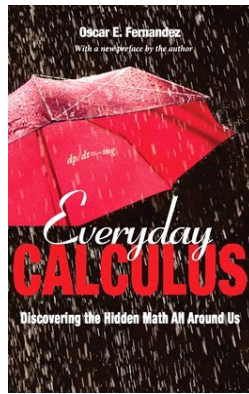




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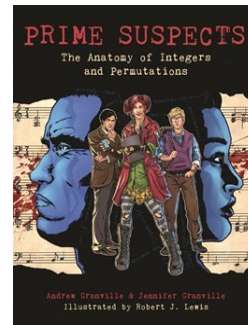


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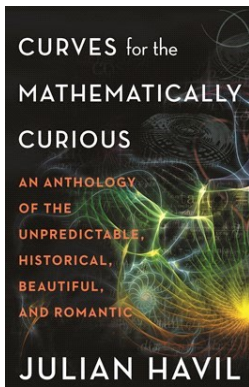


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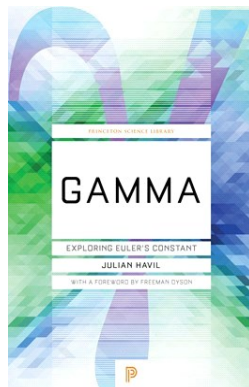


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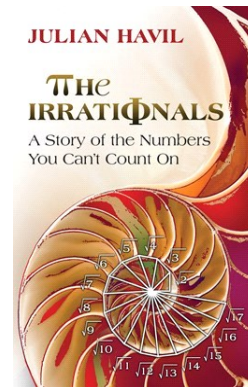


## Gamma

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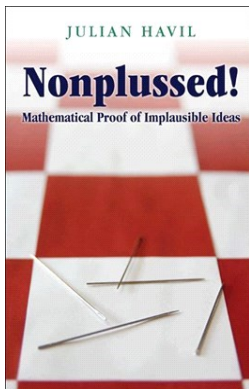


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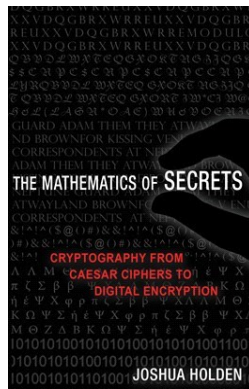


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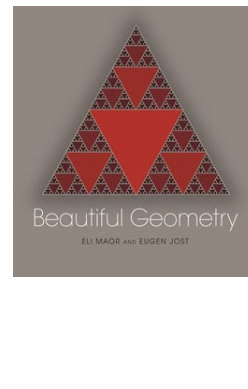


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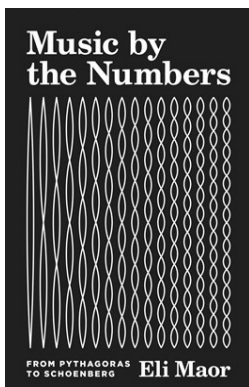
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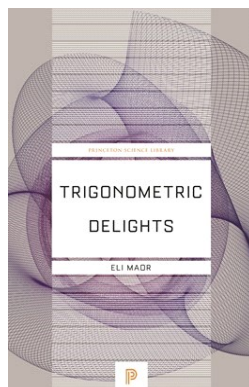


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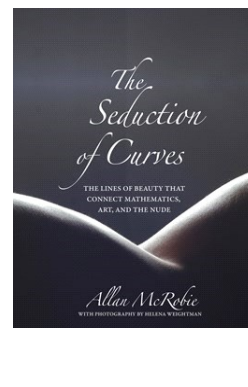
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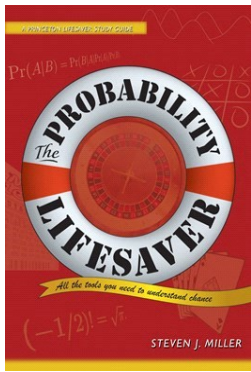


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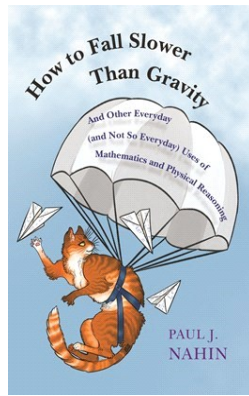


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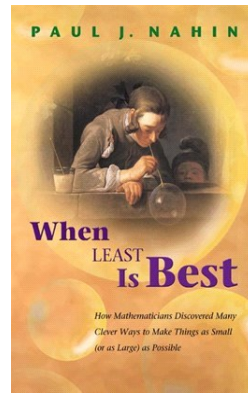


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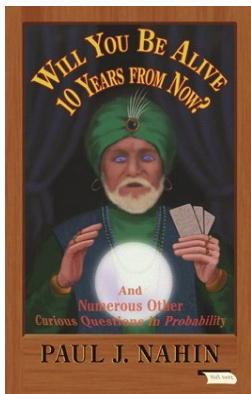


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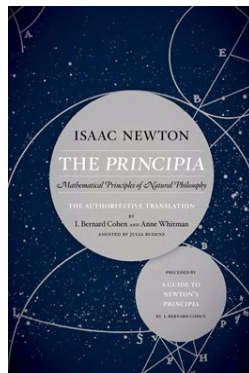


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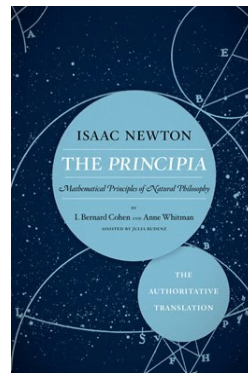


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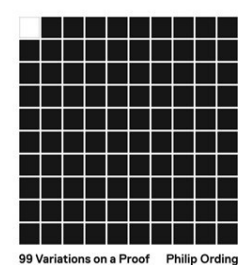


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Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz

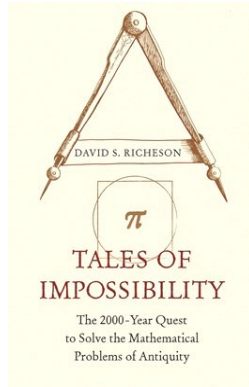
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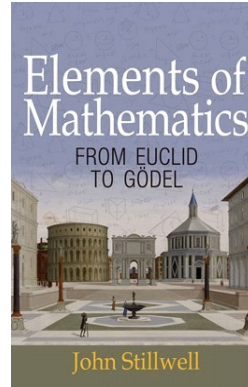


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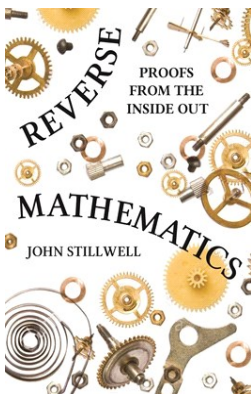


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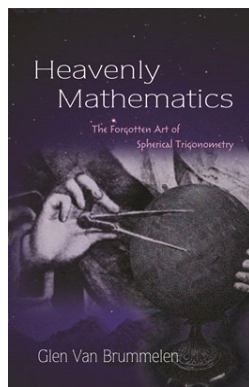


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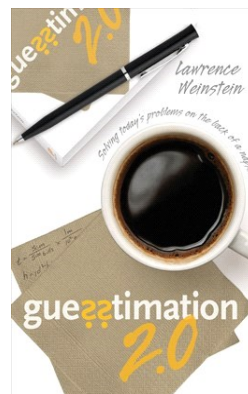


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