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Books

A retitled and revised edition of Ian Stewart's *The Problem of Mathematics*, this is the perfect guide to today's mathematics. Read about the latest discoveries, including Andrew Wile's amazing proof of Fermat's Last Theorem, the newest advances in knot theory, the Four Colour Theorem, Chaos Theory, and fake four-dimensional spaces. See how simple concepts from probability theory shed

light on the National Lottery and tell you how to maximize your winnings. Discover how infinitesimals become respectable, why there are different kinds of infinity, and how to square the circle with the mathematical equivalent of a pair of scissors. **Playing with Infinity** Courier Corporation Classic work on analysis and design of finite processes for approximating solutions of analytical

problems. Features algebraic equations, matrices, harmonic analysis, quadrature methods, and much more. *From Here to Infinity* Basic Books An approachable introduction to elementary sheaf theory and its applications beyond pure math. Sheaves are mathematical constructions concerned with passages from local properties to global ones. They have played a

<p>fundamental role in the development of many areas of modern mathematics, yet the broad conceptual power of sheaf theory and its wide applicability to areas beyond pure math have only recently begun to be appreciated. Taking an applied category theory perspective, Sheaf Theory through Examples provides an approachable introduction to elementary sheaf theory and examines</p>	<p>applications including n-colorings of graphs, satellite data, chess problems, Bayesian networks, self-similar groups, musical performance, complexes, and much more. With an emphasis on developing the theory via a wealth of well-motivated and vividly illustrated examples, Sheaf Theory through Examples supplements the formal development of concepts with</p>	<p>philosophical reflections on topology, category theory, and sheaf theory, alongside a selection of advanced topics and examples that illustrate ideas like cellular sheaf cohomology, toposes, and geometric morphisms. Sheaf Theory through Examples seeks to bridge the powerful results of sheaf theory as used by mathematicians and real-world applications, while also</p>
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supplementing the technical matters with a unique philosophical perspective attuned to the broader development of ideas.

Math Without Numbers

Basic Books

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

edition.

Professor Stewart's Casebook of Mathematical Mysteries

Princeton University Press

This engaging book presents the essential mathematics needed to describe, simulate, and render a 3D world.

Reflecting both academic and in-the-trenches practical experience, the authors teach you how to describe objects and their positions, orientations, and

trajectories in 3D using mathematics. The text provides an introduction to mathematics for game designers, including the fundamentals of coordinate spaces, vectors, and matrices. It also covers orientation in three dimensions, calculus and dynamics, graphics, and parametric curves.

In Pursuit of the Unknown

MIT Press

In Professor Stewart's Casebook of Mathematical Mysteries,

acclaimed mathematician Ian Stewart presents an enticing collection of mathematical curios and conundrums. With a new puzzle on each page, this compendium of brainteasers will both teach and delight. Guided by stalwart detective Hemlock Soames and his sidekick, Dr. John Watsup, readers will delve into almost two hundred mathematical problems,

puzzles, and facts. Tackling subjects from mathematical dates (such as Pi Day), what we don't know about primes, and why the Earth is round, this clever, mind-expanding book demonstrates the power and fun inherent in mathematics. Coincidences, Chaos, and All that Math Jazz Courier Corporation Offering a number of mathematical facts and techniques not commonly treated in courses in advanced

calculus, this book explores linear algebraic equations, quadratic and Hermitian forms, the calculus of variations, more. Concepts of Modern Mathematics Courier Corporation An explanation of challenging puzzles within the world of mathematics considers such topics as the link between a pineapple's spirals and the famous Fibonacci numbers, and the shape of the universe

as reflected by a twisted strip of paper. *Flatterland* Oxford University Press Presents a humorous look at the concepts of "new math." Conceptual Mathematics Courier Corporation School maths is not the interesting part. The real fun is elsewhere. Like a magpie, Ian Stewart has collected the most enlightening, entertaining and vexing 'curiosities' of maths over the years...

Now, the private collection is displayed in his cabinet. There are some hidden gems of logic, geometry and probability -- like how to extract a cherry from a cocktail glass (harder than you think), a pop up dodecahedron, the real reason why you can't divide anything by zero and some tips for making money by proving the obvious. Scattered among these are keys to

unlocking the mysteries of Fermat's last theorem, the Poincaré Conjecture, chaos theory, and the P/NP problem for which a million dollar prize is on offer. There are beguiling secrets about familiar names like Pythagoras or prime numbers, as well as anecdotes about great mathematicians. Pull out the drawers of the Professor's cabinet and who knows what could happen... Nature's

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logic and
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concepts
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of functions;
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numbers;
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Biologists
have long
dismissed
mathematics
as being
unable to
meaningfully
contribute to
our
understanding
of living
beings. Within
the past ten
years,
however,

mathematicians have proven that they hold the key to unlocking the mysteries of our world -- and ourselves. In *The Mathematics of Life*, Ian Stewart provides a fascinating overview of the vital but little-recognized role mathematics has played in pulling back the curtain on the hidden complexities of the natural world -- and how its contribution will be even more vital in

the years ahead. In his characteristically clear and entertaining fashion, Stewart explains how mathematicians and biologists have come to work together on some of the most difficult scientific problems that the human race has ever tackled, including the nature and origin of life itself. *Do Dice Play God?* ReadHowYouWant.com At its heart, mathematics is about

numbers, our fundamental tools for understanding the world. In Professor Stewart's *Incredible Numbers*, Ian Stewart offers a delightful introduction to the numbers that surround us, from the common (Pi and 2) to the uncommon but no less consequential (1.059463 and 43,252,003,274,489,856,000). Along the way, Stewart takes us through prime numbers, cubic equations, the concept of zero, the

possible positions on the Rubik's Cube, the role of numbers in human history, and beyond! An unfailingly genial guide, Stewart brings his characteristic wit and erudition to bear on these incredible numbers, offering an engaging primer on the principles and power of math.

What Is Mathematics, Really? Profile Books

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

<p>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</p> <p>Presents</p>	<p>major ideas and branches of pure mathematics in a clear, accessible style Defines and explains important mathematical concepts, methods, theorems, and open problems</p> <p>Introduces the language of mathematics and the goals of mathematical research</p> <p>Covers number theory, algebra, analysis, geometry, logic, probability, and more</p> <p>Traces the</p>	<p>history and development of modern mathematics</p> <p>Profiles more than ninety-five mathematicians who influenced those working today</p> <p>Explores the influence of mathematics on other disciplines</p> <p>Includes bibliographies, cross-references, and a comprehensive index</p> <p>Contributors include: Graham Allan, Noga Alon, George Andrews, Tom Archibald, Sir Michael</p>
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<p>Corporation Is the universe around us a figment of our imagination? Or are our minds figments of reality? In this refreshing new look at the evolution of mind and culture, bestselling authors Ian Stewart and Jack Cohen eloquently argue that our minds necessarily evolved inextricably within the context of culture and language. They go beyond conventional reductionist</p>	<p>ideas to look at how the mind is the response of an evolving brain trying to grapple with a complex environment. Along the way they develop new and intriguing insights into the nature of evolution, science and humanity. <i>What is Mathematics?</i> Courier Corporation A mathematical sightseeing tour of the natural world from the author of THE MAGICAL MAZE Why do many flowers</p>	<p>have five or eight petals, but very few six or seven? Why do snowflakes have sixfold symmetry? Why do tigers have stripes but leopards have spots? Mathematics is to nature as Sherlock Holmes is to evidence. Mathematics can look at a single snowflake and deduce the atomic geometry of its crystals; it can start with a violin string and uncover the existence of radio waves. And mathematics</p>
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still has the power to open our eyes to new and unsuspected regularities - the secret structure of a cloud or the hidden rhythms of the weather. There are patterns in the world we are now seeing for the first time - patterns at

the frontier of science, yet patterns so simple that anybody can see them once they know where to look. *Game, Set and Math* Hachette Books Erudite and entertaining overview follows development

of mathematics from ancient Greeks to present. Topics include logic and mathematics, the fundamental concept, differential calculus, probability theory, much more. Exercises and problems.