Mathematical Mysteries The Beauty And Magic Of Numbers

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Overview. Why seemingly unrelated mathematical truths are connected in simple and beautiful equations continues to stump even mathematicians. This recreational math book takes the reader on a fantastic voyage into the world of natural numbers. From the earliest discoveries of the ancient Greeks to various fundamental characteristics of the natural number sequence, Clawson explains fascinating mathematical mysteries in clear and easy prose.

Mathematical Mysteries: The Beauty and Magic of Numbers by ...

Mathematical Mysteries Book Subtitle The Beauty and Magic of Numbers Authors. Calvin C. Clawson; Copyright 1996 Publisher Springer US Copyright Holder Calvin C. Clawson eBook ISBN 978-1-4899-6080-1 DOI 10.1007/978-1-4899-6080-1 Softcover ISBN 978-0-306-45404-2 Edition Number 1 Number of Pages X, 314 Number of Illustrations 14 b/w illustrations Topics. Algebra

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This unparalleled meditation on the beauty and meaning of numbers explores the most exquisite equations in mathematics and allows us to experience the rush of exhilaration that comes with understanding their grandeur.

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9780306454042: Mathematical Mysteries: The Beauty and ...
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Within that limited scope, and for readers familiar with high school algebra (elementary calculus makes a couple of appearances, but you'll miss little or nothing if you aren't acquainted with it), this is an introduction to the beauty of mathematics, its amazing and unexpected interconnectedness, and the profound intellectual challenge of problems, some posed in ancient Greece, which can easily be explained to a child, yet which remain unsolved after millennia of effort by the most ...

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A meditation on the beauty and meaning of numbers, exploring mathematical equations, describing some of the mathematical discoveries of the past millennia, and pondering philosophical questions about the relation of numbers to the universe.

Praise for A. K. Dewdney Yes, We Have No Neutrons "We need more books like this-especially if they're this much fun to read." -Wired "Dewdney manages to make this catalog of error entertaining as well as instructive; good medicine for both skeptics and true believers." -Kirkus Reviews "Written with wit and a touch of pathos-and sure to please science lovers." -Publishers Weekly 200% of Nothing "It is impossible to read this timely, important book without enjoyment and eye-opening enlightenment." -Martin Gardner "An entertaining, stinging exposé." -Publishers Weekly

"This is a graphically bold, story-driven book, accessible to readers with a middle-school math background, that engagingly introduces readers to 16 unsolved mathematical puzzles. There are two main (fictional) characters in the book: "Mage" Maryam (named in honor of the late Maryam Mirzakhani, the only woman Fields Medalist), a young female mathematician who discovers that she is a descendant of the other main character, Merlin (of the Arthurian fables). Before she dies, Maryam's grandmother hands her Merlin's lost math journal containing problems he was summoned by Camelot to solve but failed to do so. Maryam briefly introduces

the 16 entries from Merlin's journal (and the corresponding math topic), then Merlin describes the problem (accompanied by beautiful illustrations), then Maryam follows up with a deeper explanation of the math, the history of the puzzle, and how close mathematicians have come to solving it"--

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 Poincar 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...

There are two kinds of people: those who can do mathematics, and then there's the rest of us. Math is boring. Females have no facility for mathematics (and really don't need it, anyway).For many people who do not like math, these myths ring true. Calvin Clawson, the celebrated

author of Mathematical Mysteries , has a unique talent for opening the door for the uninitiated to the splendors of mathematics. A writer in love with his subject, Clawson offers readers the perfect antidote to the phobias and misconceptions surrounding mathematics in Mathmatical Sorcery . Contending that the power and beauty of mathematics are gifts in which we all can partake, he shows that the field of mathematics holds a bounty of wonder that can be reaped by any one of us in the hopes of discovering new truths. In this captivating quest for pure knowledge, Clawson takes us on a journey to the amazing discoveries of our ancient ancestors. He divulges the wisdom of the Ancient Greeks, Sumerians, Babylonians, and Egyptians, whose stunning revelations still have deep meaning to us today. The secrets of the constellations, the enigma of the golden mean, and the brilliance of a proof are just some of the breakthroughs he explores with unbridled delight. Enabling us to appreciate the achievements of Newton and other intellectual giants, Clawson inspires us through his eloquence and zeal to actually do mathematics, urging us to leap to the next level. He helps us intuitively comprehend and follow the very building blocks that too long have been a mystery to most of us, including infinity, functions, and the limit. As he elegantly states: "Mathematics is pursued not only for the sheer joy of the pursuit, as with the Ancient Greeks, but for the truths it reveals about our universe." Through Mathmatical Sorcery , we taste the fruit of knowledge that has eluded us until now.

Why did Florence Nightingale introduce pie charts? How did Lewis Carroll regard Pythagoras? Who learned calculus from her nursery wallpaper? Spanning from the ancient world to the modern age, The Great Mathematicians tells fascinating and unusual tales of the men and

women who transformed mathematics. We meet the mathematician who knew eight languages by the time he was 11, the one who was sent to jail for gambling and the one who published a lot yet never existed. As well as providing rich bibliographic detail, Professors Raymond Flood and Robin Wilson explain various theorems using concise and accessible language. These include the Pythagorean theorem, Gödel's Incompleteness theorem, Fermat's Last Theorem and many more. Flood and Wilson are both former presidents of the British Society for the History of Mathematics and are uniquely qualified to lay out this incredible tale. This entertaining and rigorously accurate book presents mathematics with a human face, celebrating the achievements of the greatest mathematicians across history.

The Beauty of Mathematics in Computer Science explains the mathematical fundamentals of information technology products and services we use every day, from Google Web Search to GPS Navigation, and from speech recognition to CDMA mobile services. The book was published in Chinese in 2011 and has sold more than 600,000 copies. Readers were surprised to find that many daily-used IT technologies were so tightly tied to mathematical principles. For example, the automatic classification of news articles uses the cosine law taught in high school. The book covers many topics related to computer applications and applied mathematics including: Natural language processing Speech recognition and machine translation Statistical language modeling Quantitive measurement of information Graph theory and web crawler Pagerank for web search Matrix operation and document classification Mathematical background of big data Neural networks and Google's deep learning Jun Wu was a staff research scientist in Google who invented Google's Chinese, Japanese, and

Korean Web Search Algorithms and was responsible for many Google machine learning projects. He wrote official blogs introducing Google technologies behind its products in very simple languages for Chinese Internet users from 2006-2010. The blogs had more than 2 million followers. Wu received PhD in computer science from Johns Hopkins University and has been working on speech recognition and natural language processing for more than 20 years. He was one of the earliest engineers of Google, managed many products of the company, and was awarded 19 US patents during his 10-year tenure there. Wu became a full-time VC investor and co-founded Amino Capital in Palo Alto in 2014 and is the author of eight books.

Every time we download music, take a flight across the Atlantic or talk on our cell phones, we are relying on great mathematical inventions. In The Number Mysteries, one of our generation's foremost mathematicians Marcus du Sautoy offers a playful and accessible examination of numbers and how, despite efforts of the greatest minds, the most fundamental puzzles of nature remain unsolved. Du Sautoy tells about the quest to predict the future—from the flight of asteroids to an impending storm, from bending a ball like Beckham to forecasting population growth. He brings to life the beauty behind five mathematical puzzles that have contributed to our understanding of the world around us and have helped develop the technology to cope with it. With loads of games to play and puzzles to solve, this is a math book for everyone.

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