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Le Beau Livre Des Maths De Pythagore Aux Fractale

Denis Guedj



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The Pythagorean Theorem Alfred S. Posamentier,2010-06-22 The Pythagorean theorem may be the best known equation in mathematics Its origins reach back to the beginnings of civilization and today every student continues to study it What most nonmathematicians don't understand or appreciate is why this simply stated theorem has fascinated countless generations In this entertaining and informative book a veteran math educator makes the importance of the Pythagorean theorem delightfully clear He begins with a brief history of Pythagoras and the early use of his theorem by the ancient Egyptians Babylonians Indians and Chinese who used it intuitively long before Pythagoras's name was attached to it He then shows the many ingenious ways in which the theorem has been proved visually using highly imaginative diagrams Some of these go back to ancient mathematicians others are comparatively recent proofs including one by the twentieth president of the United States James A Garfield After demonstrating some curious applications of the theorem the author then explores the Pythagorean triples pointing out the many hidden surprises of the three numbers that can represent the sides of the right triangle e g 3 4 5 and 5 12 13 And many will truly amaze the reader He then turns to the Pythagorean means the arithmetic geometric and harmonic means By comparing their magnitudes in a variety of ways he gives the reader a true appreciation for these mathematical concepts The final two chapters view the Pythagorean theorem from an artistic point of view namely how Pythagoras's work manifests itself in music and how the Pythagorean theorem can influence fractals The author's lucid presentation and gift for conveying the significance of this key equation to those with little math background will inform entertain and inspire the reader once again demonstrating the power and beauty of mathematics

It All Adds Up: The Story of People and Mathematics Mickael Launay,2018-11-01 Fascinating so enlightening that suddenly maths doesn't seem so fearsome as it once did SIMON WINCHESTER From Aristotle to Ada Lovelace a brief history of the mathematical ideas that have forever changed the world and the everyday people and pioneers behind them The story of our best invention yet

Mathematics and Technology Christiane Rousseau,Yvan Saint-Aubin,2008-10-29 This book introduces the student to numerous modern applications of mathematics in technology The authors write with clarity and present the mathematics in a clear and straightforward way making it an interesting and easy book to read Numerous exercises at the end of every section provide practice and reinforce the material in the chapter An engaging quality of this book is that the authors also present the mathematical material in a historical context and not just the practical one Mathematics and Technology is intended for undergraduate students in mathematics instructors and high school teachers Additionally its lack of calculus centrality as well as a clear indication of the more difficult topics and relatively advanced references make it suitable for any curious individual with a decent command of high school math

Fractals: A Very Short Introduction Kenneth Falconer, 2013-09-26 Many are familiar with the beauty and ubiquity of fractal forms within nature Unlike the study of smooth forms such as spheres fractal geometry describes more familiar shapes and patterns such as the complex contours of coastlines the outlines of clouds and the branching of trees In this Very Short Introduction Kenneth Falconer looks at the roots of the fractal revolution that occurred in mathematics in the 20th century presents the new geometry of fractals explains the basic concepts and explores the wide range of applications in science and in aspects of economics This is essential introductory reading for students of mathematics and science and those interested in popular science and mathematics ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

The Parrot's Theorem Denis Guedj, 2013-08-20 Mr Ruche a Parisian bookseller receives a bequest from a long lost friend in the Amazon of a vast library of math books which propels him into a great exploration of the story of mathematics Meanwhile Max whose family lives with Mr Ruche takes in a voluble parrot who will discuss math with anyone When Mr Ruche learns of his friend's mysterious death in a Brazilian rainforest he decides that with the parrot's help he will use these books to teach Max and his brother and sister the mysteries of Euclid's Elements Pythagoras's Theorem and the countless other mathematical wonders But soon it becomes clear that Mr Ruche has inherited the library for reasons other than enlightenment and before he knows it the household is racing to prevent the parrot and vital new theorems from falling into the wrong hands An immediate bestseller when first published in France The Parrot's Theorem charmingly combines a straightforward history of mathematics and a first rate murder mystery

Galois Theory Jean-Pierre Escofier, 2000-12-21 This book offers the fundamentals of Galois Theory including a set of copious well chosen exercises that form an important part of the presentation The pace is gentle and incorporates interesting historical material including aspects on the life of Galois Computed examples recent developments and extensions of results into other related areas round out the presentation

Fractal Dimensions of Networks Eric Rosenberg, 2020-07-07 Current interest in fractal dimensions of networks is the result of more than a century of previous research on dimensions Fractal Dimensions of Networks ties the theory and methods for computing fractal dimensions of networks to the classic theory of dimensions of geometric objects The goal of the book is to provide a unified treatment of fractal dimensions of sets and networks Since almost all of the major concepts in fractal dimensions originated in the study of sets the book achieves this goal by first clearly presenting with an abundance of examples and illustrations the theory and algorithms for sets and then showing how the theory and algorithms have been applied to networks Thus the book presents the classical theory and algorithms for the box counting dimension for sets and then presents the box counting dimension for networks All the major fractal dimensions are studied e g the correlation dimension the information dimension the Hausdorff dimension the multifractal spectrum as well as many lesser known dimensions Algorithm descriptions are accompanied by worked examples many applications of the methods are presented and many exercises ranging in difficulty from easy to research level are included

Mysterious Patterns Sarah C. Campbell, 2014-04-01 Nature's repeating patterns better known as fractals are beautiful universal and explain much about how things grow Fractals can also be quantified mathematically Here is an elegant introduction to fractals through examples that can be seen in parks rivers and our very own backyards Young readers will be fascinated to learn that broccoli florets are fractals just like mountain ranges river systems and trees and will share in the wonder of math as it is reflected in the world around us Perfect for any elementary school classroom or library *Mysterious Patterns* is an exciting interdisciplinary introduction to repeating patterns

The Zen of Magic Squares, Circles, and Stars Clifford A. Pickover, 2011-11-28 Humanity's love affair with mathematics and mysticism reached a critical juncture legend has it on the back of a turtle in ancient China As Clifford Pickover briefly recounts in this enthralling book the most comprehensive in decades on magic squares Emperor Yu was supposedly strolling along the Yellow River one day around 2200 B C when he spotted the creature its shell had a series of dots within squares To Yu's amazement each row of squares contained fifteen dots as did the columns and diagonals When he added any two cells opposite along a line through the center square like 2 and 8 he always arrived at 10 The turtle unwitting inspirer of the Yu square went on to a life of courtly comfort and fame Pickover explains why Chinese emperors Babylonian astrologer priests prehistoric cave people in France and ancient Mayans of the Yucatan were convinced that magic squares arrays filled with numbers or letters in certain arrangements held the secret of the universe Since the dawn of civilization he writes humans have invoked such patterns to ward off evil and bring good fortune Yet who would have guessed that in the twenty first century mathematicians would be studying magic squares so immense and in so many dimensions that the objects defy ordinary human contemplation and visualization Readers are treated to a colorful history of magic squares and similar structures their construction and classification along with a remarkable variety of newly discovered objects ranging from ornate inlaid magic cubes to hypercubes Illustrated examples occur throughout with some patterns from the author's own experiments The tesseracts circles spheres and stars that he presents perfectly convey the age old devotion of the math minded to this Zenlike quest Number lovers puzzle aficionados and math enthusiasts will treasure this rich and lively encyclopedia of one of the few areas of mathematics where the contributions of even nonspecialists count

Adventures of a Mathematician S. M. Ulam, 1991 The true story that inspired the 2020 film *The Autobiography of Mathematician Stanislaw Ulam* one of the great scientific minds of the twentieth century tells a story rich with amazingly prophetic speculations and peppered with lively anecdotes As a member of the Los Alamos National Laboratory from 1944 on Ulam helped to precipitate some of the most dramatic changes of the postwar world He was among the first to use and advocate computers for scientific research originated ideas for the nuclear propulsion of space vehicles and made fundamental contributions to many of today's most challenging mathematical projects With his wide ranging interests Ulam never emphasized the importance of his contributions to the research that resulted in the hydrogen bomb Now Daniel Hirsch and William Mathews reveal the true story of Ulam's pivotal role in the making of the Super in their historical introduction to this behind the scenes look at the minds and ideas that ushered in the nuclear age An epilogue by Fran oise Ulam and Jan Mycielski sheds new light on Ulam's character and mathematical originality

A Beginner's Guide to Immortality Clifford A. Pickover, 2006-12-27 A Beginner's Guide to Immortality is a celebration of unusual lives and creative thinkers who punched through ordinary cultural norms while becoming successful in their own niches In his latest and greatest work world renowned science writer Cliff Pickover studies such colorful characters as Truman Capote John Cage Stephen Wolfram Ray Kurzweil and Wilhelm Röntgen and their curious ideas Through these individuals we can better explore life's astonishing richness and glimpse the diversity of human imagination Part memoir and part surrealistic perspective on culture A Beginner's Guide to Immortality gives readers a glimpse of new ways of thinking and of other worlds as he reaches across cultures and peers beyond our ordinary reality He illuminates some of the most mysterious phenomena affecting our species What is creativity What are the religious implications of mosquito evolution simulated Matrix realities the brain's own marijuana and the mathematics of the apocalypse Could we be a mere software simulation living in a matrix Who is Elisabeth Kbler-Ross and Emanuel Swedenborg Did church forefathers eat psychedelic snails How can we safely expand our minds to become more successful and reason beyond the limits of our own intuition How can we become immortal

The Physics Book Clifford A. Pickover, 2011-11-01 A thrilling fast-paced excursion through the history of physical discovery from silly putty to string theory Dr Paul Halpern author of *Collider* Following his previous volumes *The Science Book* and *The Math Book* acclaimed science writer Clifford Pickover returns with a richly illustrated chronology of physics containing 250 short entertaining and thought-provoking entries In addition to exploring such engaging topics as dark energy parallel universes the Doppler effect the God particle and Maxwell's demon *The Physics Book* extends back billions of years to the hypothetical Big Bang and forward trillions of years to a time of quantum resurrection Like the previous titles in this series *The Physics Book* offers a lively and accessible account of major concepts without getting bogged down in complex details

Proofs from THE BOOK Martin Aigner, Günter M. Ziegler, 2013-06-29 According to the great mathematician Paul Erdős God maintains perfect mathematical proofs in The Book This book presents the author's candidates for such perfect proofs those which contain brilliant ideas clever connections and wonderful observations bringing new insight and surprising perspectives to problems from number theory geometry analysis combinatorics and graph theory As a result this book will be fun reading for anyone with an interest in mathematics

Using Time Series to Analyze Long-Range Fractal Patterns Matthijs Koopmans, 2020-09-23 This book presents methods for describing and analyzing dependency and irregularity in long time series Irregularity refers to cycles that are similar in appearance but unlike seasonal patterns more familiar to social scientists repeated over a time scale that is not fixed Until now the application of these methods has mainly involved analysis of dynamical systems outside of the social sciences but this volume makes it possible for social scientists to explore and document fractal patterns in dynamical social systems

In Pursuit of the Unknown Ian Stewart,2012-03-13 The seventeen equations that form the basis for life as we know it Most people are familiar with history s great equations Newton s Law of Gravity for instance or Einstein s theory of relativity But the way these mathematical breakthroughs have contributed to human progress is seldom appreciated In In Pursuit of the Unknown celebrated mathematician Ian Stewart untangles the roots of our most important mathematical statements to show that equations have long been a driving force behind nearly every aspect of our lives Using seventeen of our most crucial equations including the Wave Equation that allowed engineers to measure a building s response to earthquakes saving countless lives and the Black Scholes model used by bankers to track the price of financial derivatives over time Stewart illustrates that many of the advances we now take for granted were made possible by mathematical discoveries An approachable lively and informative guide to the mathematical building blocks of modern life In Pursuit of the Unknown is a penetrating exploration of how we have also used equations to make sense of and in turn influence our world

Letters of Euler On Different Subjects in Natural Philosophy: Addressed to a German Princess; Volume 1 David Brewster,Leonhard Euler,John Griscom,2022-10-26 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Development of Mathematics 1950-2000 Jean-Paul Pier,2000-09 This book not only attempts a history of contemporary mathematics but also provides some authoritative guidance through the maze of mathematical theories It addresses a range of topics from the personal viewpoint of more than forty mathematicians most of them active researchers and renowned specialists in their fields

Fibonacci's Liber Abaci Laurence Sigler,2012-12-06 First published in 1202 Fibonacci s Liber Abaci was one of the most important books on mathematics in the Middle Ages introducing Arabic numerals and methods throughout Europe This is the first translation into a modern European language of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods

Surfing through Hyperspace Clifford A. Pickover, 2001-05-17 Do a little armchair time travel rub elbows with a four dimensional intelligent life form or stretch your mind to the furthest corner of an uncharted universe With this astonishing guidebook Surfing Through Hyperspace you need not be a mathematician or an astrophysicist to explore the all but unfathomable concepts of hyperspace and higher dimensional geometry No subject in mathematics has intrigued both children and adults as much as the idea of a fourth dimension Philosophers and parapsychologists have meditated on this mysterious space that no one can point to but may be all around us Yet this extra dimension has a very real practical value to mathematicians and physicists who use it every day in their calculations In the tradition of Flatland and with an infectious enthusiasm Clifford Pickover tackles the problems inherent in our 3 D brains trying to visualize a 4 D world muses on the religious implications of the existence of higher dimensional consciousness and urges all curious readers to venture into the unexplored territory lying beyond the prison of the obvious Pickover alternates sections that explain the science of hyperspace with sections that dramatize mind expanding concepts through a fictional dialogue between two futuristic FBI agents who dabble in the fourth dimension as a matter of national security This highly accessible and entertaining approach turns an intimidating subject into a scientific game open to all dreamers Surfing Through Hyperspace concludes with a number of puzzles computer experiments and formulas for further exploration inviting readers to extend their minds across this inexhaustibly intriguing scientific terrain

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