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Martin Gardner



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Ridder Newspapers *Prime Numbers* David Wells, 2011-01-13 A fascinating journey into the mind bending world of prime numbers Cicadas of the genus *Magicicada* appear once every 7, 13 or 17 years Is it just a coincidence that these are all prime numbers How do twin primes differ from cousin primes and what on earth or in the mind of a mathematician could be sexy about prime numbers What did Albert Wilansky find so fascinating about his brother in law's phone number Mathematicians have been asking questions about prime numbers for more than twenty five centuries and every answer seems to generate a new rash of questions In *Prime Numbers The Most Mysterious Figures in Math* you'll meet the world's most gifted mathematicians from Pythagoras and Euclid to Fermat Gauss and Erdős and you'll discover a host of unique insights and inventive conjectures that have both enlarged our understanding and deepened the mystique of prime numbers This comprehensive A to Z guide covers everything you ever wanted to know and much more that you never suspected about prime numbers including The unproven Riemann hypothesis and the power of the zeta function The Primes is in P algorithm The sieve of Eratosthenes of Cyrene Fermat and Fibonacci numbers The Great Internet Mersenne Prime Search And much much more

Luck, Logic, and White Lies Jörg Bewersdorff, 2021-04-28 Praise for the First Edition *Luck Logic and White Lies* teaches readers of all backgrounds about the insight mathematical knowledge can bring and is highly recommended reading among avid game players both to better understand the game itself and to improve one's skills Midwest Book Review The best book I've found for someone new to game math is *Luck Logic and White Lies* by Jörg Bewersdorff It introduces the reader to a vast mathematical literature and does so in an enormously clear manner Alfred Wallace Musings Ramblings and Things Left Unsaid The aim is to introduce the mathematics that will allow analysis of the problem or game This is done in gentle stages from chapter to chapter so as to reach as broad an audience as possible Anyone who likes games and has a taste for analytical thinking will enjoy this book Peter Fillmore CMS Notes *Luck Logic and White Lies The Mathematics of Games* Second Edition considers a specific problem generally a game or game fragment and introduces the related mathematical methods It contains a section on the historical development of the theories of games of chance and combinatorial and strategic games This new edition features new and much refreshed chapters including an all new Part IV on the problem of how to measure skill in games Readers are also introduced to new references and techniques developed since the previous edition Features Provides a uniquely historical perspective on the mathematical underpinnings of a comprehensive list of games Suitable for a broad audience of differing mathematical levels Anyone with a passion for games game theory and mathematics will enjoy this book whether they be students academics or game enthusiasts Covers a wide selection of topics at a level that can be appreciated on a historical recreational and mathematical level Jörg Bewersdorff 1958 studied mathematics from 1975 to 1982 at the University of Bonn and earned his PhD in 1985 In the same year he started his career as game developer and mathematician He served as the general manager of the subsidiaries of Gauselmann AG for more than two decades where he developed electronic gaming machines automatic payment machines

and coin operated Internet terminals Dr Bewersdorff has authored several books on Galois theory translated in English and Korean mathematical statistics and object oriented programming with JavaScript

Handbook of Research on Transformative and Innovative Pedagogies in Education Keengwe, Jared, 2022-05-13 Various pedagogies such as the use of digital learning in education have been used and researched for decades but many schools have little to show for these initiatives This contrasts starkly with technology supported initiatives in other fields such as business and healthcare Traditional pedagogies and general digital technology applications have yet to impact education in a significant way that transforms learning A primary reason for this minimal impact on learning is that digital technologies have attempted to make traditional instructional processes more efficient rather than using a more appropriate paradigm for learning As such it is important to look at digital technology as a partner and use transformative applications to become partners with students not teachers to empower their learning process both in and out of school The Handbook of Research on Transformative and Innovative Pedagogies in Education is a comprehensive reference that identifies and justifies the paradigm of transformative learning and pedagogies in education It provides exemplars of existing transformative applications that if used as partners to empower student learning have the potential to dramatically engage students in a type of learning that better fits 21st century learners Covering topics such as gamification project based learning and professional development this major reference work is an essential resource for pre service and in service teachers educational technologists instructional designers educational administration and faculty researchers and academicians seeking pedagogical models that inspire students to learn meaningfully

Combinatorial Games Richard K. Guy, 2000-08-30 Based on lectures presented at the AMS Short Course on Combinatorial Games held at the Joint Mathematics Meetings in Columbus in August 1990 the ten papers in this volume will provide readers with insight into this exciting field Because the book requires very little background it will likely find a wide audience that includes the amateur interested in playing games the undergraduate looking for a new area of study instructors seeking a refreshing area in which to give new courses at both the undergraduate and graduate levels and graduate students looking for a variety of research topics

Geometry Harold R. Jacobs, 2003-03-14 Harold Jacobs s Geometry created a revolution in the approach to teaching this subject one that gave rise to many ideas now seen in the NCTM Standards Since its publication nearly one million students have used this legendary text Suitable for either classroom use or self paced study it uses innovative discussions cartoons anecdotes examples and exercises that unfailingly capture and hold student interest This edition is the Jacobs for a new generation It has all the features that have kept the text in class by itself for nearly 3 decades all in a thoroughly revised full color presentation that shows today s students how fun geometry can be The text remains proof based although the presentation is in the less formal paragraph format The approach focuses on guided discovery to help students develop geometric intuition

Tribute to a Mathemagician Barry Cipra, Erik D. Demaine, Martin L. Demaine, Tom Rodgers, 2004-11-10 The tradition of a publication

based on the Gathering for Gardner continues with this new carefully selected and edited collection in which Martin Gardner and friends inspire and entertain The contributors to this volume virtually a list of Who's Who in the World of Puzzles trace their inspiration to Martin Gardner's puzzle column in Scientific American

College Geometry David C. Kay, 2011-06-24 Designed for mathematics majors and other students who intend to teach mathematics at the secondary school level College Geometry A Unified Development unifies the three classical geometries within an axiomatic framework The author develops the axioms to include Euclidean elliptic and hyperbolic geometry showing how geometry has real and far reaching applications

Introduction to Scientific Programming Joseph L. Zachary, 2012-12-06 Introduction to Computational Science was developed over a period of two years at the University of Utah Department of Computer Science in conjunction with the U S Department of Energy funded Undergraduate Computation in Engineering Science UCES program Each chapter begins by introducing a problem and then guiding the student through its solution The computational techniques needed to solve the problem are developed as necessary making the motivation for learning the computing always apparent Each chapter will introduce a single problem that will be used to motivate a single computing concept The notes currently consist of 15 chapters The first seven chapters deal with Maple and the last eight with C The textbook will contain 20 to 30 chapters covering a similar mix of concepts at a finer level of detail

Games of No Chance Richard J. Nowakowski, 1998-11-13 Is Nine Men Morris in the hands of perfect players a win for white or for black or a draw Can king rook and knight always defeat king and two knights in chess What can Go players learn from economists What are nimbers tinies switches and minies This book deals with combinatorial games that is games not involving chance or hidden information Their study is at once old and young though some games such as chess have been analyzed for centuries the first full analysis of a nontrivial combinatorial game Nim only appeared in 1902 The first part of this book will be accessible to anyone regardless of background it contains introductory expositions reports of unusual tournaments and a fascinating article by John H Conway on the possibly everlasting contest between an angel and a devil For those who want to delve more deeply the book also contains combinatorial studies of chess and Go reports on computer advances such as the solution of Nine Men Morris and Pentominoes and theoretical approaches to such problems as games with many players If you have read and enjoyed Martin Gardner or if you like to learn and analyze new games this book is for you

The Information James Gleick, 2011-03-01 From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era Information communication and information theory Acclaimed science writer James Gleick presents an eye opening vision of how our relationship to information has transformed the very nature of human consciousness A fascinating intellectual journey through the history of communication and information from the language of Africa's talking drums to the invention of written alphabets from the electronic transmission of code to the origins of information theory into the new information age and the current deluge of news tweets images and blogs Along the way Gleick profiles key innovators including Charles Babbage Ada Lovelace Samuel

Morse and Claude Shannon and reveals how our understanding of information is transforming not only how we look at the world but how we live A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN E O Wilson Literary Science Writing Award *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1974 **Colossal Book of Mathematics** Martin Gardner, 2001 No amateur or math authority can be without this ultimate compendium of classic puzzles paradoxes and puzzles from America's best loved mathematical expert 320 line drawings

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