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Gödel, Escher, Bach

2000

what is a self and how can a self come out of inanimate matter this is the riddle that drove douglas hofstadter to write this extraordinary book in order to impart his original and personal view on the core mystery of human existence our intangible sensation of i ness hofstadter defines the playful yet seemingly paradoxical notion of strange loop and explicates this idea using analogies from many disciplines

All the Mathematics You Missed

2004

written in a friendly style for a general mathematically literate audience fearless symmetry starts with the basic properties of integers and permutations and reaches current research in number theory

Fearless Symmetry

2008-08-24

distills key concepts from linear algebra geometry matrices calculus optimization probability and statistics that are used in machine learning

Mathematics for Machine Learning

2020-04-23

in this charming volume a noted english mathematician uses humor and anecdote to illuminate the concepts of groups sets subsets topology boolean algebra and other mathematical subjects 200 illustrations

Concepts of Modern Mathematics

2012-05-23

the third edition of this popular and effective textbook provides in one volume a unified treatment of

topics essential for first year university students studying for degrees in mathematics students of computer science physics and statistics will also find this book a helpful guide to all the basic mathematics they require it clearly and comprehensively covers much of the material that other textbooks tend to assume assisting students in the transition to university level mathematics expertly revised and updated the chapters cover topics such as number systems set and functions differential calculus matrices and integral calculus worked examples are provided and chapters conclude with exercises to which answers are given for students seeking further challenges problems intersperse the text for which complete solutions are provided modifications in this third edition include a more informal approach to sequence limits and an increase in the number of worked examples exercises and problems the third edition of fundamentals of university mathematics is an essential reference for first year university students in mathematics and related disciplines it will also be of interest to professionals seeking a useful guide to mathematics at this level and capable pre university students one volume unified treatment of essential topics clearly and comprehensively covers material beyond standard textbooks worked examples challenges and exercises throughout

Fundamentals of University Mathematics

2010-10-20

what is the connection between the outbreak of cholera in victorian soho the battle of the atlantic african eve and the design of anchors one answer is that they are all examples chosen by dr tom körner to show how a little mathematics can shed light on the world around us and deepen our understanding of it dr körner an experienced author describes a variety of topics which continue to interest professional mathematicians like him he does this using relatively simple terms and ideas yet confronting difficulties which are often the starting point for new discoveries and avoiding condescension if you have ever wondered what it is that mathematicians do and how they go about it then read on if you are a mathematician wanting to explain to others how you spend your working days and nights then seek inspiration here

The Pleasures of Counting

1996-12-05

prime obsession taught us not to be afraid to put the math in a math book unknown quantity heeds the lesson well so grab your graphing calculators slip out the slide rules and buckle up john derbyshire is

introducing us to algebra through the ages and it promises to be just what his die hard fans have been waiting for here is the story of algebra with this deceptively simple introduction we begin our journey flanked by formulae shadowed by roots and radicals escorted by an expert who navigates unerringly on our behalf we are guaranteed safe passage through even the most treacherous mathematical terrain our first encounter with algebraic arithmetic takes us back 38 centuries to the time of abraham and isaac jacob and joseph ur and haran sodom and gomorrah moving deftly from abel s proof to the higher levels of abstraction developed by galois we are eventually introduced to what algebraists have been focusing on during the last century as we travel through the ages it becomes apparent that the invention of algebra was more than the start of a specific discipline of mathematics it was also the birth of a new way of thinking that clarified both basic numeric concepts as well as our perception of the world around us algebraists broke new ground when they discarded the simple search for solutions to equations and concentrated instead on abstract groups this dramatic shift in thinking revolutionized mathematics written for those among us who are unencumbered by a fear of formulae unknown quantity delivers on its promise to present a history of algebra astonishing in its bold presentation of the math and graced with narrative authority our journey through the world of algebra is at once intellectually satisfying and pleasantly challenging

Unknown Quantity

2006-06-02

since it was first published three decades ago excursions into mathematics has been one of the most popular mathematical books written for a general audience taking the reader for short excursions into several specific disciplines of mathematics it makes mathematical concepts accessible to a wide audience the millennium edition is updated with current research and new solutions to outstanding problems that have been discovered since the last edition was printed such as the solution to the well known four color problem excursions into mathematics the millennium edition is an exciting revision of the original much loved classic everyone with an interest in mathematics should read this book

Excursions into Mathematics

2020-02-24

the teaching and learning of mathematics has degenerated into the realm of rote memorization the outcome of which leads to satisfactory formal ability but not real understanding or greater intellectual independence the new edition of this classic work seeks to address this problem its goal is to put the

meaning back into mathematics lucid easily understandable albert einstein 301 linecuts

What is Mathematics?

1996

this book records my efforts over the past four years to capture in words a description of the form and function of mathematics as a background for the philosophy of mathematics my efforts have been encouraged by lectures that i have given at heidelberg under the auspices of the alexander von humboldt stiftung at the university of chicago and at the university of minnesota the latter under the auspices of the institute for mathematics and its applications jean benabou has carefully read the entire manuscript and has offered incisive comments george glauberman car los kenig christopher mulvey r narasimhan and dieter puppe have provided similar comments on chosen chapters fred linton has pointed out places requiring a more exact choice of wording many conversations with george mackey have given me important insights on the nature of mathematics i have had similar help from alfred aepli john gray jay goldman peter johnstone bill lawvere and roger lyndon over the years i have profited from discussions of general issues with my colleagues felix browder and melvin rothenberg ideas from tammo tom dieck albrecht dold richard lashof and ib madsen have assisted in my study of geometry jerry bona and b l foster have helped with my examination of mechanics my observations about logic have been subject to constructive scrutiny by gert miller marian boykan pour el ted slaman r voreadou volker weispfennig and hugh woodin

Mathematics Form and Function

2012-12-06

two experienced math educators help the average reader discover not only the everyday usefulness of math but the fun that comes from mastering the basics of arithmetic algebra geometry and more if you think of mathematics as a series of pointless classroom exercises without much relevance to real life this book will change your mind as the authors show math is deeply embedded in almost every aspect of daily life from managing your personal finances making consumer purchases and sharpening your computational skills to learning to apply mathematical concepts that will give you a better grasp of both ordinary and extraordinary events and help you better appreciate the world we live in with some basic geometry under your belt you ll discover that there is an optimal point on a soccer field from which to shoot a goal and you ll be more clever with the gears of a bike if you like to play cards or go to the casino knowing something about probability will give you an edge you ll also have an enhanced understanding of the

whispering effect inside the capitol rotunda why a car's headlights are so bright and even why sewer covers are round after reading this entertaining and instructive book you'll come away with a whole new awareness of how elegantly mathematics explains everyday experiences and observations from present day items to classical art and architecture

The Mathematics of Everyday Life

2018-08-21

some of the pieces included here are important and some are curiosities but all are absorbing recommended for casual and serious math enthusiasts library journal from the archives of the world's most famous newspaper comes a collection of its very best writing on mathematics big and informative the new york times book of mathematics gathers more than 110 articles written from 1892 to 2010 that cover statistics coincidences chaos theory famous problems cryptography computers and many other topics edited by pulitzer prize finalist and senior times writer gina kolata and featuring renowned contributors such as james gleick william l laurence malcolm w browne george johnson and john markoff it's a must have for any math and science enthusiast many fascinating problems are explained in language that the layperson will understand this compilation of real world applications will interest those with an inclination toward mathematics or problem solving publishers weekly

The New York Times Book of Mathematics

2013-06-04

the amazing story of one of the greatest math problems of all time and the reclusive genius who solved it in the tradition of fermat's enigma and prime obsession george szpiro brings to life the giants of mathematics who struggled to prove a theorem for a century and the mysterious man from st petersburg grigory perelman who finally accomplished the impossible in 1904 henri poincaré developed the poincaré conjecture an attempt to understand higher dimensional space and possibly the shape of the universe the problem was he couldn't prove it a century later it was named a millennium prize problem one of the seven hardest problems we can imagine now this holy grail of mathematics has been found accessibly interweaving history and math szpiro captures the passion frustration and excitement of the hunt and provides a fascinating portrait of a contemporary noble genius

Poincare's Prize

2008-07-29

is mathematics a highly sophisticated intellectual game in which the adepts display their skill by tackling invented problems or are mathematicians engaged in acts of discovery as they explore an independent realm of mathematical reality why does this seemingly abstract discipline provide the key to unlocking the deep secrets of the physical universe how one answers these questions will significantly influence metaphysical thinking about reality this book is intended to fill a gap between popular wonders of mathematics books and the technical writings of the philosophers of mathematics the chapters are written by some of the world s finest mathematicians mathematical physicists and philosophers of mathematics each giving their perspective on this fascinating debate every chapter is followed by a short response from another member of the author team reinforcing the main theme and raising further questions accessible to anyone interested in what mathematics really means and useful for mathematicians and philosophers of science at all levels meaning in mathematics offers deep new insights into a subject many people take for granted

Meaning in Mathematics

2011-05-19

this volume presents reverse mathematics to a general mathematical audience for the first time stillwell gives a representative view of this field emphasizing basic analysis finding the right axioms to prove fundamental theorems and giving a novel approach to logic to logic

Reverse Mathematics

2019-09-24

to the first russian edition it was a very difficult task to write a guide book of a small size designed to contain the fundamental knowledge of mathema tics which is most necessary to engineers and students of higher technical schools in our tendency to the compactness and brevity of the exposition we attempted however to produce a guide book which would be easy to understand convenient to use and as accurate as possible as much as it is required in engineering it should be pointed out that this book is neither a handbook nor a compendium but a guide book therefore it is not written as systematically as a handbook

should be written hence the reader should not be surprised to find for example i hospital s rule in the section devoted to computation of limits which is a part of the chapter introduction to the analysis placed before the concept of the derivative or information about the gamma function in the chapter algebra just after the concept of the factorial there are many such imperfections in the book thus a reader who wants to acquire certain information is advised to use not only the table of contents but also the alphabetical index inserted at the end of the book if a problem mentioned in the text is explained in detail in another place of the book then the corresponding page is indicated in a footnote

A Guide Book to Mathematics

2012-12-06

this book introduces fundamental ideas in mathematics through interesting puzzles students from age12 upwards who are bored with routine classwork in maths will enjoy these puzzles which will sharpen will sharpen their logical reasoning it is designed to arouse an interest in mathematics among readers among readers in the 12 18 age group

A Synopsis of Elementary Results in Pure and Applied Mathematics

2005

what kind of book is this it is a book produced by a remarkable cultural circumstance in the former soviet union which fostered the creation of groups of students teachers and mathematicians called mathematical circles the work is predicated on the idea that studying mathematics can generate the same enthusiasm as playing a team sport without necessarily being competitive this book is intended for both students and teachers who love mathematics and want to study its various branches beyond the limits of school curriculum

Fun and Fundamentals of Mathematics

2002-03

this book will help those wishing to teach a course in technical writing or who wish to write themselves

Mathematical Circles

1996

the mathematics book is a how to do it book embedded in a stylish coffee table book created especially for adults with a minimal knowledge of mathematics the book provides a practical mathematics course in line with international adult numeracy standards it enables readers to develop a set of foundational maths skills fractions algebra trigonometry statistics and even long division but mathematics is more than merely developing skills the mathematics book enables readers to gain a global view of mathematics the applications the ideas the romance the beauty the human endeavour and the pivotal role it plays in contemporary society it also allows them to experience some of the challenges satisfactions and pleasures that can be found in the amazing world of mathematics

Mathematical Writing

1989

this book provides an exciting history of the discovery of ramsey theory and contains new research along with rare photographs of the mathematicians who developed this theory including paul erdős b l van der waerden and henry baudet

The Mathematics Book

2014

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

The Mathematical Coloring Book

2008-10-13

an elegantly dramatized and illustrated dialog on the square root of two and the whole concept of irrational numbers

3D Math Primer for Graphics and Game Development, 2nd Edition

2011-11-02

traces the eccentric life of legendary mathematician paul erdos a wandering genius who fled his native hungary during the holocaust and helped devise the mathematical basis of computer science

The Square Root of 2

2006-04-26

describes the latest developments in number theory by looking at the birch and swinnerton dyer conjecture

My Brain is Open

2000-02-28

an introduction to a broad range of topics in deep learning covering mathematical and conceptual background deep learning techniques used in industry and research perspectives written by three experts in the field deep learning is the only comprehensive book on the subject elon musk cochair of openai cofounder and ceo of tesla and spacex deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts because the computer gathers knowledge from experience there is no need for a human computer operator to formally specify all the knowledge that the computer needs the hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones a graph of these hierarchies would be many layers deep this book introduces a broad range of topics in deep learning the text offers mathematical and conceptual background covering relevant concepts in linear algebra probability theory and information theory numerical computation and machine learning it describes deep learning techniques used by practitioners in

industry including deep feedforward networks regularization optimization algorithms convolutional networks sequence modeling and practical methodology and it surveys such applications as natural language processing speech recognition computer vision online recommendation systems bioinformatics and videogames finally the book offers research perspectives covering such theoretical topics as linear factor models autoencoders representation learning structured probabilistic models monte carlo methods the partition function approximate inference and deep generative models deep learning can be used by undergraduate or graduate students planning careers in either industry or research and by software engineers who want to begin using deep learning in their products or platforms a website offers supplementary material for both readers and instructors

Elliptic Tales

2012

these counterexamples deal mostly with the part of analysis known as real variables covers the real number system functions and limits differentiation riemann integration sequences infinite series functions of 2 variables plane sets more 1962 edition

Deep Learning

2016-11-10

this little book makes serious math simple with more than 120 laws theorems paradoxes and more explained in jargon free terms the little book of mathematical principles provides simple clear explanations for the principles equations paradoxes laws and theorems that form the basis of modern mathematics it is a refreshingly engaging tour of fibonacci numbers euclid s elements and zeno s paradoxes as well as other fundamental principles such as chaos theory game theory and the game of life renowned mathematics author dr robert solomon simplifies the ancient discipline of mathematics and provides fascinating answers to intriguing questions such as what is the greatest pyramid what is a perfect number and is there a theory for stacking oranges

Counterexamples in Analysis

2012-07-12

mathematics educators glazer u of georgia and mcconnell north park u describe practical uses of some common mathematical concepts and techniques the arrangement is by concept so the reference would probably be most useful to high school teachers and librarians rather than students seeking techniques for particular problems the techniques themselves are not explained

The Little Book of Mathematical Principles, Theories & Things

2016-01-01

this book covers 250 milestones in mathematical history beginning millions of years ago with ancient ant odometers and moving through time to our modern day quest for new dimensions

Real-Life Math

2002

this new and expanded edition is intended to help candidates prepare for entrance examinations in mathematics and scientific subjects including step sixth term examination paper step is an examination used by cambridge colleges for conditional offers in mathematics they are also used by some other uk universities and many mathematics departments recommend that their applicants practice on the past papers even if they do not take the examination advanced problems in mathematics bridges the gap between school and university mathematics and prepares students for an undergraduate mathematics course the questions analysed in this book are all based on past step questions and each question is followed by a comment and a full solution the comments direct the reader s attention to key points and put the question in its true mathematical context the solutions point students to the methodology required to address advanced mathematical problems critically and independently this book is a must read for any student wishing to apply to scientific subjects at university level and for anyone interested in advanced mathematics

The Math Book

2009

dunham writes for nonspecialists and they will enjoy his piquantanecdotes and amusing asides booklist artfully dunham conducts a tour of the mathematical universe he believes these ideas to be accessible to the audience he wantsto reach and he writes so that they are nature if you want to encourage anyone s

interest in math get them themathematical universe new scientist

Advanced Problems in Mathematics

2019-10-16

mathematicsby c a laisant

The Mathematical Universe

1994-08-16

a mathematical journey through the most fascinating problems of extremes and how to solve them what is the best way to photograph a speeding bullet how can lost hikers find their way out of a forest why does light move through glass in the least amount of time possible when least is best combines the mathematical history of extrema with contemporary examples to answer these intriguing questions and more paul nahin shows how life often works at the extremes with values becoming as small or as large as possible and he considers how mathematicians over the centuries including descartes fermat and kepler have grappled with these problems of minima and maxima throughout nahin examines entertaining conundrums such as how to build the shortest bridge possible between two towns how to vary speed during a race and how to make the perfect basketball shot moving from medieval writings and modern calculus to the field of optimization the engaging and witty explorations of when least is best will delight math enthusiasts everywhere

Mathematics

2013-07-06

requiring only a basic background in plane geometry and elementary algebra this classic poses 28 problems that introduce the fundamental ideas that make mathematics truly exciting excellent a thoroughly enjoyable sampler of fascinating mathematical problems and their solutions science magazine

When Least Is Best

2021-05-18

develops mathematical and probabilistic tools needed to give rigorous derivations and applications of fundamental results in signal processing theory

The Enjoyment of Mathematics

1990-01-01

a tenth anniversary edition of the iconic book about the wonderful world of maths sunday times bestseller shortlisted for the bbc samuel johnson prize original and highly entertaining sunday times a page turner about humanity s strange never easy and above all never dull relationship with numbers new scientist will leave you hooked on numbers daily telegraph in this richly entertaining and accessible book alex bellos explodes the myth that maths is best left to the geeks and demonstrates the remarkable ways it s linked to our everyday lives alex explains the surprising geometry of the 50p piece and the strategy of how best to gamble it in a casino he shines a light on the mathematical patterns in nature and on the peculiar predictability of random behaviour he eats a potato crisp whose revolutionary shape was unpalatable to the ancient greeks and he shows the deep connections between maths religion and philosophy from the world s fastest mental calculators in germany to numerologists in the us desert from a startlingly numerate chimpanzee in japan to venerable hindu sages in india these dispatches from numberland are an unlikely but exhilarating cocktail of history reportage and mathematical proofs the world of maths is a much friendlier and more colourful place than you might have imagined this anniversary edition is fully revised and updated

The Mathematics of Signal Processing

2012

Alex's Adventures in Numberland

2010-04-05

The Essence of Mathematics Through Elementary Problems

2019-06-11

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