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Projected Costs of Generating Electricity 2010 OECD 2010-04-01 This joint report by the International Energy Agency (IEA) and the OECD Nuclear Energy Agency (NEA) is the seventh in a series of studies on electricity generating costs. It presents the latest data available for a wide variety of fuels and technologies.

Problems in Distributions and Partial Differential Equations C. Zuily 1988-04-01 The aim of this book is to provide a comprehensive introduction to the theory of distributions, by the use of solved problems. Although written for mathematicians, it can also be used by a wider audience, including engineers and physicists. The first six chapters deal with the classical theory, with special emphasis on the concrete aspects. The reader will find many examples of distributions and learn how to work with them. At the beginning of each chapter the relevant theoretical material is briefly recalled. The last chapter is a short introduction to a very wide and important field in analysis which can be considered as the most natural application of distributions, namely the theory of partial differential equations. It includes exercises on the classical differential operators and on fundamental solutions, hypoellipticity, analytic hypoellipticity, Sobolev spaces, local solvability, the Cauchy problem, etc.

Python in High School Arnaud Bodin 2020-03-10 Python is the ideal language to learn programming. It is a powerful language that will immerse you in the world of algorithms. This book guides you step by step through original mathematical and computer activities adapted to high school. It is complemented by online resources: all the Python codes and colourful chapters. You have everything you need to succeed!* Hello world! * Turtle (Scratch with Python) * If ... then ... * Functions * Arithmetic - While loop - I * Strings - Analysis of a text * Lists I * Statistics - Data visualization * Files * Arithmetic - While loop - II * Binary I * Lists II * Binary II * Probabilities - Parrondo's paradox * Find and replace * Polish calculator - Stacks * Text viewer -Markdown * L-systems * Dynamic images * Game of life * Ramsey graphs and combinatorics * Bitcoin * Random blocks *

Finding Moonshine: A Mathematician's Journey Through Symmetry (Text Only) Marcus du Sautoy 2012-05-31 This new ebook from the author of 'The Music of the Primes' combines a personal insight into the mind of a working mathematician with the story of one of the biggest adventures in mathematics: the

search for symmetry.

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.

Livres de France 2010 Includes, 1982-1995: Les Livres du mois, also published separately.

The Music of the Primes Marcus du Sautoy 2004-04-27 An examination of the Riemann Hypothesis considers the modern implications of its solution, noting its potential impact on business, science, and other fields and describing the million-dollar prize currently being offered to whomever can crack its code. Reprint.

Professor Stewart's Cabinet of Mathematical Curiosities Ian Stewart 2010-09-03 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...

The Cartoon Guide to Algebra Larry Gonick 2015-01-20 A comprehensive and comical new illustrated guide to algebra Do you think that a Cartesian plane is a luxury jetliner? Does the phrase "algebraic expression" leave you with a puzzled look? Do you believe that the Order of Operations is an Emmy-winning medical drama? Then you need The Cartoon Guide to Algebra to put you on the road to algebraic literacy. The Cartoon Guide to Algebra covers all of algebra's essentials—including rational and real numbers, the number line, variables, expressions, laws of combination, linear and quadratic equations, rates, proportion, and graphing—with clear, funny, and easy-to-understand illustrations, making algebra's many practical applications come alive. This latest math guide from New York Times bestselling author Larry Gonick is an essential supplement for students of all levels, in high school, college, and beyond. School's most dreaded subject has never been more fun.

Invitation to the Mathematics of Fermat-Wiles Yves Hellegouarch 2001-09-24 Assuming only modest knowledge of undergraduate level math, Invitation to the Mathematics of Fermat-Wiles presents diverse concepts required to comprehend Wiles' extraordinary proof. Furthermore, it places these concepts in their historical context. This book can be used in introduction to mathematics theories

courses and in special topics courses on Fermat's last theorem. It contains themes suitable for development by students as an introduction to personal research as well as numerous exercises and problems. However, the book will also appeal to the inquiring and mathematically informed reader intrigued by the unraveling of this fascinating puzzle. Rigorously presents the concepts required to understand Wiles' proof, assuming only modest undergraduate level math Sets the math in its historical context Contains several themes that could be further developed by student research and numerous exercises and problems Written by Yves Hellegouarch, who himself made an important contribution to the proof of Fermat's last theorem

Electrochemical Impedance John R. Scully 1993 The collection of twenty-seven papers published has been grouped into six major categories : corrosion process characterization and modeling, applications of Kramers-Kronig transformations for evaluating the validity of data, corrosion and its inhibition by either corrosion products of specially added inhibitors, corrosion of aluminum and aluminum alloys, corrosion of steel in soils and concrete, and evaluation of coatings on metal substrates.

The Burgess Shale Margaret Atwood 2017-03-17 "Atwood provides a window into her own early writing days . . . a treasure for readers interested in Canadian literature because this is where it all began." —Prairie Fire Review of Books "The outburst of cultural energy that took place in the 1960s was in part a product of the two decades that came before. It's always difficult for young people to see their own time in perspective: when you're in your teens, a decade earlier feels like ancient history and the present moment seems normal: what exists now is surely what has always existed." In this short work, Margaret Atwood, author of The Handmaid's Tale and "Canada's most famous writer" (The New Yorker), compares the Canadian literary landscape of the 1960s to the Burgess Shale, a geological formation that contains the fossils of many strange prehistoric life forms. The Burgess Shale is not entirely about writing itself, however: Atwood also provides some insight into the meager writing infrastructure of that time, taking a lighthearted look at the early days of the institutions we take for granted today—from writers' organizations, prizes, and grant programs to book tours and festivals. "Allows the reader a brief glimpse into the mind of a great writer and her perspective and experience living through what would now seem to many the Stone Age of the Canadian writing scene . . . invaluable and very readable." —Canadian Literature

Logique D'Aristote Jules Barthelemy Saint-Hilaire 2019-02-23 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 was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. 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.

The Doctrine of Chances Abraham de Moivre 1756 A history of the men in the author's family. Describes their pains and joys as they become American.

Quantum Mechanics Claude Cohen-Tannoudji 1977 This didactically unrivalled textbook and timeless

reference by Nobel Prize Laureate Claude Cohen-Tannoudji separates essential underlying principles of quantum mechanics from specific applications and practical examples and deals with each of them in a different section. Chapters emphasize principles; complementary sections supply applications. The book provides a qualitative introduction to quantum mechanical ideas; a systematic, complete and elaborate presentation of all the mathematical tools and postulates needed, including a discussion of their physical content and applications. The book is recommended on a regular basis by lecturers of undergraduate courses.

A Mathematical Picture Book Georg Glaeser 2019-10-22 How can one visualize a curve that fills the entire plane or all of space? Can a polyhedron be smoothly turned inside out? What is the projective plane? What does four-dimensional space look like? Can soap bubbles exist that are not spherical? How can one better understand the structure of vortices and currents? In this book you will experience mathematics from the visual point of view, discovering fascinating and never previously published images that offer illustrative examples to the above questions. Every picture is accompanied by a brief explanatory text, references to further reading, and a number of web links where you can obtain further information. This book is intended for all friends of mathematics—students, teachers, amateurs, and professionals—who want to see something beyond dry text and endless formulas. It will provide inspiration for pursuing further one or another topic that may previously have seemed inaccessible. You will get to know mathematics from a totally new and colorful viewpoint.

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.

Alex's Adventures in Numberland Alex Bellos 2011-04-04 The world of maths can seem mind-boggling, irrelevant and, let's face it, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino. In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan. Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck.

Applied Functional Analysis Jean-Pierre Aubin 2011-09-30 A novel, practical introduction to functional analysis In the twenty years since the first edition of Applied FunctionalAnalysis was published, there has been an explosion in the numberof books on functional analysis. Yet none of these offers theunique perspective of this new edition. Jean-Pierre Aubin updateshis popular reference on functional analysis with new insights andrecent discoveries-adding three new chapters on set-valued analysisand convex analysis, viability kernels and capture basins, andfirst-order partial differential equations. He presents, for thefirst time at an introductory level, the extension of differentialcalculus in the framework of both the theory of distributions andset-valued analysis, and discusses their application for studyingboundary-value problems for elliptic and parabolic partialdifferential equations and for systems of first-order partialdifferential equations. To keep the presentation concise and accessible, Jean-Pierre Aubinintroduces functional analysis through the simple Hilbertianstructure. He seamlessly blends pure mathematics with applied areasthat illustrate the theory, incorporating a broad range of examplesfrom numerical analysis, systems theory, calculus of variations,control and optimization theory, convex and nonsmooth analysis, andmore. Finally, a summary of the essential theorems as well asexercises

reinforcing key concepts are provided. Applied FunctionalAnalysis, Second Edition is an excellent and timely resource forboth pure and applied mathematicians.

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.

The Analytical Theory of Heat Jean-Baptiste-Joseph Fourier 1878

Professor Stewart's Hoard of Mathematical Treasures Ian Stewart 2010-04-27 Opening another drawer in his Cabinet of Curiosities, renowned mathematics professor Ian Stewart presents a new medley of games, paradoxes, and riddles in Professor Stewart's Hoard of Mathematical Treasures. With wit and aplomb, Stewart mingles casual puzzles with grander forays into ancient and modern mathematical thought. Amongst a host of arcane and astonishing facts about every kind of number from irrational and imaginary to complex and cuneiform, we learn: – How to organize chaos – How matter balances anti-matter – How to turn a sphere inside out (without creasing it) – How to calculate pi by observing the stars – ...and why you can't comb a hairy ball. Along the way Stewart offers the reader tantalizing glimpses of the mathematics underlying life and the universe. Mind-stretching, enlightening, and endlessly amusing, Professor Stewart's Hoard of Mathematical Treasures will stimulate, delight, and enthrall.

LIVRES DU MOIS JUIL-AOUT 1999 7-8 1999

Fundamentals of the Theory of Operator Algebras KADISON 1983 These volumes are companions to the treatise; "Fundamentals of the Theory of Operator Algebras," which appeared as Volume 100 - I and II in the series, Pure and Applied Mathematics, published by Academic Press in 1983 and 1986, respectively. As stated in the preface to those volumes, "Their primary goal is to teach the sub ject and lead the reader to the point where the vast recent research literature, both in the subject proper and in its many applications, becomes accessible." No attempt was made to be encyclopCEdic; the choice of material was made from among the fundamentals of what may be called the "classical" theory of operator algebras. By way of supplementing the topics selected for presentation in "Fundamentals," a substantial list of exercises comprises the last section of each chapter. An equally important purpose of those exer cises is to develop "hand-on" skills in use of the techniques appearing in the text. As a consequence, each exercise was carefully designed to depend only on the material that precedes it, and separated into segments each of which is realistically capable of solution by an at tentive, diligent, well-motivated reader.

Buckland's Complete Book of Witchcraft Raymond Buckland 1986 "This complete self-study course in modern Wicca is a treasured classic - an essential and trusted guide that belongs in every witch's library."---Back cover

How Not to Be Wrong Jordan Ellenberg 2014-05-29 The columnist for Slate's popular "Do the Math" celebrates the logical, illuminating nature of math in today's world, sharing in accessible language mathematical approaches that demystify complex and everyday problems.

Les Grands Classiques de la Littérature Anglaise Et Américaine Peggy Castex 1994 Cet ouvrage prépare à l'explication de texte en anglais. Les "grands classiques" de la littérature anglaise et américaine sont répartis en trois sections : poésie, théâtre, fiction. Chaque section s'ouvre sur une introduction générale spécifique. Chaque texte est précédé d'une introduction à l'auteur et à l'œuvre, et accompagné de notes et de questions destinées à guider l'étudiant dans la compréhension et l'analyse littéraire. Niveau : DEUG, Licence, classes préparatoires littéraires.

Electronic Amplifiers Charles H. Evans 1979

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 Françoise Ulam and Jan Mycielski sheds new light on Ulam's character and mathematical originality.

Effective Actuarial Methods M. J. Goovaerts 1990 During the last two decades actuarial research has developed in a more applied direction. Although the original risk models generally served as convenient and sometimes tractable mathematical examples of general probabilistic and/or statistical theories, nowadays models and techniques are encountered that can be considered to be typically actuarial. Examples include ordering of risks by dangerousness, credibility theory and techniques based on IBNR models. Not only does this book present the underlying mathematics of these subjects, but it also deals with the practical application of the techniques. In order to provide results based on real insurance portfolios, use is made of three software packages, namely SLIC performing stop-loss insurance calculations for individual and collective risk models, CRAC dealing with actuarial applications of credibility theory, and LORE giving IBNR-based estimates for loss reserves. Worked-out examples illustrate the theoretical results. This book is intended for use in preparing university actuarial exams, and contains many exercises with varying levels of complexity. It is valuable as a textbook for students in actuarial sciences during their last year of study. Due to the emphasis on applications and because of the worked-out examples on real portfolio data, it is also useful for practising actuaries to guide them in interpreting their own results.

Livrehebdo 2001

The Road to Reality Roger Penrose 2021-06-09 **WINNER OF THE 2020 NOBEL PRIZE IN PHYSICS** The Road to Reality is the most important and ambitious work of science for a generation. It provides nothing less than a comprehensive account of the physical universe and the essentials of its underlying mathematical theory. It assumes no particular specialist knowledge on the part of the reader, so that, for

example, the early chapters give us the vital mathematical background to the physical theories explored later in the book. Roger Penrose's purpose is to describe as clearly as possible our present understanding of the universe and to convey a feeling for its deep beauty and philosophical implications, as well as its intricate logical interconnections. The Road to Reality is rarely less than challenging, but the book is leavened by vivid descriptive passages, as well as hundreds of hand-drawn diagrams. In a single work of colossal scope one of the world's greatest scientists has given us a complete and unrivalled guide to the glories of the universe that we all inhabit. 'Roger Penrose is the most important physicist to work in relativity theory except for Einstein. He is one of the very few people I've met in my life who, without reservation, I call a genius' Lee Smolin

Ho Chi Minh City (Saigon) Mason Florence 2000-08 Ho Chi Minh City is Vietnam's living experiment in 'new thinking'; home to some of the best bars, wettest water parks, and most serene and beautiful temples in Asia. * 13 maps, including five in full colour * floor plans of the city's famous Chinese pagodas * where to find the best Chinese, French and Vietnamese cuisine * excursions - temples, tunnels and tropical idylls * shop till you drop - what to buy and what not

Transform Linear Algebra Frank Uhlig 2002 This book encourages readers to develop an intuitive understanding of the foundations of Linear Algebra. An emphasis on the concepts of Linear Algebra and Matrix Theory conveys the structure and nature of Linear Spaces and of Linear Transformations. Almost every chapter has three sections: a lecture followed by problems, theoretical and mathematical enrichment, and applications to and from Linear Algebra. Specific chapter topics cover linear transformations; row reduction; linear equations; subspaces; linear dependence, bases, and dimension; composition of maps, matrix inverse and transpose; coordinate vectors, basis change; determinants, ?l-matrices; matrix eigenvalues; orthogonal bases and orthogonal matrices; symmetric and normal matrix eigenvalues; singular values; and basic numerical linear algebra techniques. For individuals in fields related to economics, engineering, science, or mathematics.

The Fierce 44 The Staff of the Undefeated 2019-12-24 A dynamic and hip collective biography that presents forty-four of America's greatest movers and shakers, from Frederick Douglass to Aretha Franklin to Barack Obama, written by ESPN's TheUndefeated.com and illustrated with dazzling portraits by Rob Ball. Meet forty-four of America's most impressive heroes in this collective biography of African American figures authored by the team at ESPN's TheUndefeated.com. From visionaries to entrepreneurs, athletes to activists, the Fierce 44 are beacons of brilliance, perseverance, and excellence. Each short biography is accompanied by a compelling portrait by Robert Ball, whose bright, graphic art pops off the page. Bringing household names like Serena Williams and Harriet Tubman together with lesser-known but highly deserving figures such as Robert Abbott and Dr. Charles Drew, this collection is a celebration of all that African Americans have achieved, despite everything they have had to overcome.

Les Livres disponibles 2004 La liste exhaustive des ouvrages disponibles publiés en langue française dans le monde. La liste des éditeurs et la liste des collections de langue française.

Livres hebdo 2002

Structure and Randomness Terence Tao "In 2007, Terry Tao began a mathematical blog, as an outgrowth of his own website at UCLA. This book is based on a selection of articles from the first year of that blog. These articles discuss a wide range of mathematics and its applications, ranging from expository articles on quantum mechanics, Einstein's equation $E = mc^2$, or compressed sensing, to open problems in analysis, combinatorics, geometry, number theory, and algebra, to lecture

series on random matrices, Fourier analysis, or the dichotomy between structure and randomness that is present in many subfields of mathematics, to more philosophical discussions on such topics as the interplay between finitary and infinitary in analysis. Some selected commentary from readers of the blog has also been included at the end of each article.

1001 Problems in Classical Number Theory Armel Mercier 2007

A European Politics of Education Romuald Normand 2016-06-10 A European Politics of Education proposes a sociology of education establishing connections between empirical data coming from European-scale comparative surveys, normative assumptions structuring actors' representations and interpretative judgements, and a specific focus on Lifelong Learning policy areas. It invites readers to think about the place of standards, expertise and calculations in the European space from a common perspective, supported by a tradition of critical sociology and European political studies. The book: Addresses an important agenda: how the policies and politics of supranational Europe are making a European educational space Contains a response to the emergence of new epistemic governance and instruments at European level Contains contributions from the EU and the UK which give a comprehensive selection of perspectives and analysis of the field as it concerns Europe The complexity of the contemporary European education policy space is addressed here with new lines of inquiry as well as a reflexive outlook, on standardization, policy-making and actor engagement. Students and researchers of European policy studies, education policy analysts and theorists will all be particularly interested readers.