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Handbook of Splines Gheorghe Micula 2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions, together with some applications to various fields, emphasizing the significance of the relationship between the general theory and its applications. At the same time, the goal of the book is also to provide new ma terial on spline function theory, as well as a fresh look at old results, being written for people interested in research, as well as for those who are interested in applications. The theory of spline functions and their applications is a relatively recent field of applied mathematics. In the last 50 years, spline function theory has undergone a won derful development with many new directions appearing during this time. This book has its origins in the wish to adequately describe this development from the notion of 'spline' introduced by 1. J. Schoenberg (1901-1990) in 1946, to the newest recent theories of 'spline wavelets' or 'spline fractals'. Isolated facts about the functions now called 'splines' can be found in the papers of L. Euler, A. Lebesgue, G. Birkhoff, J.

Recent Advances in Geometric Inequalities Dragoslav S. Mitrinovic 2013-04-17

The Mathematical Review 1896

Theory and Application of Infinite Series Konrad Knopp 2018-10-15 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. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The Art of Strategic Planning for Information Technology Bernard H. Boar 2002-02-28 A revision of the bestselling book that shows IT departments how to take on new challenges As technology becomes more mainstream and accessible, companies must develop new ways to use their IT resources in order to compete. In this extensive revision, IT expert Bernard Boar provides a methodology that shows readers how to use IT as a competitive business asset. He tackles the latest challenges facing IT departments over the next several years, including how to devise a complete strategy to make the department more effective and how to choose the best strategy framework for a company. Boar also

shows how technologies like e-commerce, data warehousing, architectures, and Java can be used to make a business more competitive.

Incercâri poetice G. BOTEANU (Writer of Verse.) 1860

Scientia Magna, Vol. 1, No. 1, 2005 Zhang Wenpeng 2006-01-01 Collection of papers from various scientists dealing with smarandache notions in science.

Final Report International Commission on the Holocaust in Romania 2005 The International Commission on the Holocaust in Romania was established in October 2003 on the initiative of Ion Iliescu, the President of Romania; this final report was presented to him in November 2004. The aim of the Commission was to research the facts and determine the truth about the Holocaust in Romania during World War II. The report examines various aspects of the state-organized participation of Romania in the mass murder of Jews in Romania and in Romanian-controlled territories, as well as in northern Transylvania where the genocide was perpetrated by the Nazis and their Hungarian allies. Inter alia, it discusses antisemitism and the evolution of Romanian anti-Jewish policies from the late 1930s to 1944, the impact of the Soviet annexation of Bessarabia and Northern Bukovina on antisemitism in Romania, anti-Jewish incidents in 1940 and the pogroms in Bucharest and Iaşi, mass murders of Jews in the recaptured provinces and deportation to Transnistria in 1941, mass murder of Jews in Odessa and in Transnistrian camps, the "Romanianization" of the economy and the expropriation of Romanian Jews, the reaction of the Jewish community in Romania to anti-Jewish policies, and the personal responsibility of Ion Antonescu for the genocide. Relates, also, to war crimes trials held in Romania, and to the trivialization of the Holocaust and its "selective" and outright denial in postwar Romania.

Relative Finiteness in Module Theory Toma Albu 1984

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[superscript 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.

Quadratic Diophantine Equations Titu Andreescu 2015-06-29 This text treats the classical theory of quadratic diophantine equations and guides the reader through the last two decades of computational techniques and progress in the area. The presentation features two basic methods to investigate and motivate the study of quadratic diophantine equations: the theories of continued fractions and quadratic fields. It also discusses Pell’s equation and its generalizations, and presents some important quadratic diophantine equations and applications. The inclusion of examples makes this book useful for both research and classroom settings.

Octogon Mathematical Magazine 2004

Knowledge Societies United Nations Commission on Science and Technology for Development 1998 Revolutionary information and communication technologies are contributing to dramatic changes in the competitiveness of global and local markets and in the way people conduct their business and everyday lives. The potential benefits and risks these changes present for developing countries and transitional economies are enormous. This comprehensive, authoritative reference book examines the ways in which these powerful technologies are being harnessed to development goals, thus helping to reduce the risk of exclusion and create new opportunities for developing countries. The report emphasizes the urgency of developing new social and technological infrastructures so as to ensure that new technologies are used effectively. It also offers outlines and practical steps intended to guide stake-holders interested in shaping their future innovative

knowledge societies.

Basic Algebra I Nathan Jacobson 2012-12-11 A classic text and standard reference for a generation, this volume covers all undergraduate algebra topics, including groups, rings, modules, Galois theory, polynomials, linear algebra, and associative algebra. 1985 edition.

Episodes in Nineteenth and Twentieth Century Euclidean Geometry Ross Honsberger 1995 Professor Honsberger has succeeded in 'finding' and 'extricating' unexpected and little known properties of such fundamental figures as triangles, results that deserve to be better known. He has laid the foundations for his proofs with almost entirely synthetic methods easily accessible to students of Euclidean geometry early on. While in most of his other books Honsberger presents each of his gems, morsels, and plums, as self contained tidbits, in this volume he connects chapters with some deductive treads. He includes exercises and gives their solutions at the end of the book. In addition to appealing to lovers of synthetic geometry, this book will stimulate also those who, in this era of revitalizing geometry, will want to try their hands at deriving the results by analytic methods. Many of the incidence properties call to mind the duality principle; other results tempt the reader to prove them by vector methods, or by projective transformations, or complex numbers.

Gazeta matematică 1994

Polynomials Maurice Mignotte 1999-05 This textbook gives a well-balanced presentation of the classic procedures of polynomial algebra which are computationally relevant and some algorithms developed during the last decade. The first chapter discusses the construction and the representation of polynomials. The second chapter focuses on the computational aspects of the analytical theory of polynomials. Polynomials with coefficients in a finite field are then described in chapter three, and the final chapetr is devoted to factorization of polynomials with integral coefficients. The book is primarily aimed at graduate students taking courses in Polynomial Algebra, with a prerequisite knowledge of set theory, usual fields and basic algebra. Fully worked out examples, hints and references complement the main text, and details concerning the implementation of algorithms as well as indicators of their efficiency are provided. The book is also useful as a supplementary text for courses in scientific computing, analysis of algorithms, computational polynomial factorization, and computational geometry of polynomials.

Uncovering the Correttis Carol Marinelli 2013-04-01 The more powerful the family...the darker the secrets. Meet the family everyone's talking about in this prequel novella to the Sicily's Corretti Dynasty series, brought to you by Harlequin Presents. Investigative journalist Emily Hyslop is furious when her editor—and ex—reassigns her from a career-making expos to a frivolous wedding in Sicily. But scandalous secrets lie behind the union of the rival Corretti and Battaglia families. Things start looking up when Emily meets the most intimidating, not to mention sexiest, man she's ever encountered.... Detective Anton Soranno has valuable insight into the Correttis and their scandalous dealings...and plenty of reason to hate them. He's the perfect source of information—and the more he helps Emily with her story, the more time they have to explore their intense desire. But even as their passionate nights uncover surprising feelings in both of them, Emily and Anton know that she must leave Sicily once the wedding is over.... Look for more books in the Sicily's Corretti Dynasty series from Harlequin Presents, beginning with A Legacy of Secrets by Carol Marinelli.

Limits, Series, and Fractional Part Integrals Ovidiu Furdui 2013-05-30 This book features challenging problems of classical analysis that invite the reader to explore a host of strategies and tools used for solving problems of modern topics in real analysis. This volume offers an unusual collection of problems — many of them original — specializing in three topics of mathematical analysis: limits, series, and fractional part integrals. The work is divided into three parts, each containing a chapter dealing with a particular problem type as well as a very short section of hints to select problems. The first chapter collects problems on limits of special sequences and Riemann integrals; the second chapter focuses on the calculation of fractional part integrals with a special section called

‘Quickies’ which contains problems that have had unexpected succinct solutions. The final chapter offers the reader an assortment of problems with a flavor towards the computational aspects of infinite series and special products, many of which are new to the literature. Each chapter contains a section of difficult problems which are motivated by other problems in the book. These ‘Open Problems’ may be considered research projects for students who are studying advanced calculus, and which are intended to stimulate creativity and the discovery of new and original methods for proving known results and establishing new ones. This stimulating collection of problems is intended for undergraduate students with a strong background in analysis; graduate students in mathematics, physics, and engineering; researchers; and anyone who works on topics at the crossroad between pure and applied mathematics. Moreover, the level of problems is appropriate for students involved in the Putnam competition and other high level mathematical contests.

50th IMO - 50 Years of International Mathematical Olympiads Hans-Dietrich Gronau 2011-01-03 In July 2009 Germany hosted the 50th International Mathematical Olympiad (IMO). For the very first time the number of participating countries exceeded 100, with 104 countries from all continents. Celebrating the 50th anniversary of the IMO provides an ideal opportunity to look back over the past five decades and to review its development to become a worldwide event. This book is a report about the 50th IMO as well as the IMO history. A lot of data about all the 50 IMOs are included. We list the most successful contestants, the results of the 50 Olympiads and the 112 countries that have ever taken part. It is impressive to see that many of the world’s leading research mathematicians were among the most successful IMO participants in their youth. Six of them gave presentations at a special celebration: Bollobás, Gowers, Lovász, Smirnov, Tao and Yoccoz. This book is aimed at students in the IMO age group and all those who have interest in this worldwide leading competition for highschool students.

Proceedings of the Twelfth Annual ACM-SIAM Symposium on Discrete Algorithms SIAM Activity Group on Discrete Mathematics 2001-01-01 Contains 130 papers, which were selected based on originality, technical contribution, and relevance. Although the papers were not formally refereed, every attempt was made to verify the main claims. It is expected that most will appear in more complete form in scientific journals. The proceedings also includes the paper presented by invited plenary speaker Ronald Graham, as well as a portion of the papers presented by invited plenary speakers Udi Manber and Christos Papadimitriou.

The Rehabilitation of Offenders Act 1974 (Exclusions and Exceptions) (Scotland) Order 2013 Scotland 2012-12-13 Enabling power: Rehabilitation of Offenders Act 1974, ss. 4 (4), 7 (4), 10 (1). Issued: 18.09.2012. Made: -. Laid before the Scottish Parliament: -. Coming into force: -. Effect: S.I. 2003/1590; 2004/1771; 2005/2011; 2009/1182; 2010/231; 2011/2085 partially revoked in relation to Scotland & S.S.I. 2005/445; 2009/334, 429; 2011/211, 215; 2012/88, 89 partially revoked & S.S.I. 2003/231; 2006/194; 2007/75; 2010/243 revoked. Territorial extent & classification: S. For approval by resolution of the Scottish Parliament

Jocurile Daniei Anton Holban 2017-07-29 "Şi totuşi, distanţa rămAne, nu mă pot juca In voie cu sufletul ei, cum fac copiii cu nisipul de la mare. Şi, dacă sunt cu dAnsa, oricAt am fi de emoţionaţi de Imbrăţişările noastre, bucuria nu poate dura multă vreme. Iar imediat ce nu mai suntem Impreună, mă simt singur, cu o mie de Intrebări la care n-am primit nici un răspuns, cu neIncrederi care nu pot fi calmate, şi Dania rămAne cu o imagine fermacătoare, dar fără realitate, ca un vis, ca un film la cinematograf."

The Geometry of Remarkable Elements Constantin Mihalescu 2016-04 The book we are proposing here to the English-speaking reader is one that would have qualified at the beginning of the previous century as a book of "Modern Geometry" of the triangle and quadrilateral. Most of the results were obtained in the second half of the 19th century and the first half of the 20th century. The author was a retired artillery colonel and an enthusiastic amateur mathematician. This should come as no surprise, as for any artillery officer mathematics (and, especially, geometry) plays an important part in his formation. As the title surely

suggests, this book is a rich collection of some of the most important properties of numerous points, lines, and circles related to triangles and quadrilaterals, as they were known by the mid-1950s. These include the nine-point circle, the Simson line, the orthopolar triangles, the orthopole, the Gergonne and Nagel points, the Miquel point and circle, the Carnot circle, the Brocard points, the Lemoine point and circles, the Newton-Gauss line, and many others. It was, probably, one of the most complete descriptions of the subject at the moment of the writing. The book was primarily addressed to young students but will be of interest to problem solvers in elementary geometry as well. Even geometers will find here new problems to inspire them.

Theory and Applications of Spline Functions T. N. E. Greville 1969

Poetry and mathematics Scott Buchanan 1975

Functions of a Real Variable N. Bourbaki 2013-12-01 This is an English translation of Bourbaki's Fonctions d'une Variable Réelle. Coverage includes: functions allowed to take values in topological vector spaces, asymptotic expansions are treated on a filtered set equipped with a comparison scale, theorems on the dependence on parameters of differential equations are directly applicable to the study of flows of vector fields on differential manifolds, etc.

Romania - the Native Country of International Mathematical Olimpiads Vasile Berinde 2000

Architecture and Modernity Hilde Heynen 2000-02-28 Bridges the gap between the history and theory of twentieth-century architecture and cultural theories of modernity. In this exploration of the relationship between modernity, dwelling, and architecture, Hilde Heynen attempts to bridge the gap between the discourse of the modern movement and cultural theories of modernity. On one hand, she discusses architecture from the perspective of critical theory, and on the other, she modifies positions within critical theory by linking them with architecture. She assesses architecture as a cultural field that structures daily life and that embodies major contradictions inherent in modernity, arguing that architecture nonetheless has a certain capacity to adopt a critical stance vis-à-vis modernity. Besides presenting a theoretical discussion of the relation between architecture, modernity, and dwelling, the book provides architectural students with an introduction to the discourse of critical theory. The subchapters on Walter Benjamin, Ernst Bloch, Theodor Adorno, and the Venice School (Tafuri, Dal Co, Cacciari) can be studied independently for this purpose.

Problems from the Book Titu Andreescu 2008-01-01

An Invitation to General Algebra and Universal Constructions George M. Bergman 2015-02-05 Rich in examples and intuitive discussions, this book presents General Algebra using the unifying viewpoint of categories and functors. Starting with a survey, in non-category-theoretic terms, of many familiar and not-so-familiar constructions in algebra (plus two from topology for perspective), the reader is guided to an understanding and appreciation of the general concepts and tools unifying these constructions. Topics include: set theory, lattices, category theory, the formulation of universal constructions in category-theoretic terms, varieties of algebras, and adjunctions. A large number of exercises, from the routine to the challenging, interspersed through the text, develop the reader's grasp of the material, exhibit applications of the general theory to diverse areas of algebra, and in some cases point to outstanding open questions. Graduate students and researchers wishing to gain fluency in important mathematical constructions will welcome this carefully motivated book.

An Introduction to Diophantine Equations Titu Andreescu 2010-09-02 This problem-solving book is an introduction to the study of Diophantine equations, a class of equations in which only integer solutions are allowed. The presentation features some classical Diophantine equations, including linear, Pythagorean, and some higher degree equations, as well as exponential Diophantine equations. Many of the selected exercises and problems are original or are presented with original solutions. An Introduction to Diophantine Equations: A Problem-Based Approach is intended for undergraduates, advanced high school students and teachers, mathematical contest participants — including Olympiad and Putnam competitors — as well as readers interested in essential mathematics. The work uniquely presents unconventional and

non-routine examples, ideas, and techniques.
Problems in Real Analysis Teodora-Liliana Radulescu 2009-06-12 Problems in Real Analysis: Advanced Calculus on the Real Axis features a comprehensive collection of challenging problems in mathematical analysis that aim to promote creative, non-standard techniques for solving problems. This self-contained text offers a host of new mathematical tools and strategies which develop a connection between analysis and other mathematical disciplines, such as physics and engineering. A broad view of mathematics is presented throughout; the text is excellent for the classroom or self-study. It is intended for undergraduate and graduate students in mathematics, as well as for researchers engaged in the interplay between applied analysis, mathematical physics, and numerical analysis.
Membrane Computing Gheorghe Paun 2012-12-06 Membrane computing is an unconventional model of computation associated with a new computing paradigm. The field of membrane computing was initiated in 1998 by the author of this book; it is a branch of natural computing inspired by the structure and functioning of the living cell and devises distributed parallel computing models in the form of membrane systems. This book is the first monograph surveying the new field in a systematic and coherent way. It presents the central notions and results: the main classes of P systems, the main results about their computational power and efficiency, a complete bibliography, and a series of open problems and research topics.
A Book of Mathematical Problems on Subjects Included in the Cambridge Course Joseph Wolstenholme 1867
Stochastic Orders Moshe Shaked 2007-04-03 This reference text presents comprehensive coverage of the various notions of stochastic orderings, their closure properties, and their applications. Some of these orderings are routinely used in many applications in economics, finance, insurance, management science, operations research, statistics, and various other fields. And the value of the other notions of stochastic orderings needs further exploration. This book is an ideal reference for those interested in decision making under uncertainty and interested in the analysis of complex stochastic systems. It is suitable as a text for advanced graduate course on stochastic ordering and applications.
Advanced Modern Algebra: Third Edition, Part 2 Joseph J. Rotman 2017-08-15 This book is the second part of the new edition of Advanced Modern Algebra (the first part published as Graduate Studies in Mathematics, Volume 165). Compared to the previous edition, the material has been significantly reorganized and many sections have been rewritten. The book presents many topics mentioned in the first part in greater depth and in more detail. The five chapters of the book are devoted to group theory, representation theory, homological algebra, categories, and commutative algebra, respectively. The book can be used as a text for a second abstract algebra graduate course, as a source of additional material to a first abstract algebra graduate course, or for self-study.
The Bariatric Bible CAROL. BOWEN BALL 2019-04-30 This comprehensive guide offers advice on the types of surgery on offer and highlights the many diets that are required prior to surgery. Its main focus is on advice and recipes for after surgery to help the post-op patient maximise their best chance of long-term success with weight-loss and better health.
The Universities of Europe in the Middle Ages Hastings Rashdall 1895
An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism George Green 1828