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Problems in Exploration Seismology and Their Solutions Walter de Gruyter
Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.
Publications Springer
This original, quantitatively oriented analysis applies the theory of the core to define competition in order to describe and deduce the consequences of competitive and non-competitive behavior. Written by one of the world's leading mathematical economists, the book is mathematically rigorous. No other book is currently available giving a game theoretic analysis of competition with basic mathematical tools.Economic theorists have been working on a new and fundamental approach to the theory of competition and market structure, an approach inspired by appreciation of the earlier work of Edgeworth and Bohm-Bawerk and making use of the new tools of the theory of games as developed by von Neumann and Morgenstern. This new approach bases itself on the analysis of competitive behavior and its implications for the characteristics of market equilibrium rather than on assumptions about the characteristics of competitive and monopolistic markets. Its central concept is ""the theory of the core of the market,"" and it is concerned, with the conditions under which markets will or will not achieve the characteristics of uniform prices and welfare optimality.Telser provides a number of insights into the symptoms of competition, when and how competition is bought into play, the mechanisms of competition and collusion, the results of competition and collusion, and the results of competition and collusion for the economy and for the general public. Many misconceptions about the nature of a competitive equilibrium are dispelled. The book is not only a mathematical analysis of core price theory but also contains extensive empirical research in private industry. These empirical findings, from research pursued over several years, enhance understanding of how competition works and of the determinants of the returns to manufacturing industries.
Journal of the American Chemical Society World Scientific
Focusing on the basic theory required to solve practical problems, this book provides 212 problems, and solutions, which cover a wide range of issues, including least-squares methods, choosing velocities for various situations, z-transforms, determining 2D and 3D field geometries, and solving processing and interpretation problems.
ID Cards Taylor & Francis
The four-volume set comprising LNCS volumes 3021/3022/3023/3024 constitutes the refereed proceedings of the 8th European Conference on Computer Vision, ECCV 2004, held in Prague, Czech Republic, in May 2004. The 190 revised papers presented were carefully reviewed and selected from a total of 555 papers submitted. The four books span the entire range of current issues in computer vision. The papers are organized in topical sections on tracking; feature-based object detection and recognition; geometry; texture; learning and recognition; information-based image processing; scale space, flow, and restoration; 2D shape detection and recognition; and 3D shape representation and reconstruction.
Introduction to Probability Cambridge University Press
The individual papers that comprise this monograph are derived from two American Chemical Society (ACS) Fall National Meetings that focused on the current uses of synchrotron radiation (SR) research techniques. The first Symposium was held in Washington, DC, in August 1994, and the second convened in Chicago, IL, in August 1995. The intent of these symposia was to present a broad overview of several current topics in industrial, chemical, and materials-based SR research to a chemically inclined audience. The SR techniques covered were divided roughly into the three general fields of industrial, chemical, and materials science for this purpose. Included within these four categories are environmental, geologic, atomic/molecular, analytical, solid state physics, surface science, and biological applications of SR. There is little doubt that structural biology and environmental science are the largest growth areas in SR research as this monograph goes to press. The spirit of these symposia was to bring together the expert synchrotron radiation user with new and potential users of SR techniques. There are now a preponderance of particle storage rings, located throughout the world, devoted exclusively to the production of SR. There have been great improvements in the particle accelerators and storage rings from which SR emanates. These newest third generation SR sources are the result of the successful collaboration between SR users and accelerator physicists which has made a reality out of experiments never before possible.
VIKOR based MAGDM Strategy with Trapezoidal Neutrosophic Numbers CRC Press
Proceedings of the Society are included in v. 1-59, 1879-1937.

Numerical Solution of the Two-group Diffusion Equations in X-y Geometry Walter de Gruyter GmbH & Co KG
The problem of developing systematic methods for obtaining similarity variables is considered for partial differential equations. Similarity variables are a set of transformations which reduce a partial differential equation to an ordinary differential equation. This paper considers two methods of generating similarity variables. The first method uses a group of finite transformations and the second uses a group of infinitesimal transformations. The mathematical theory for both techniques is described and illustrated. The two methods of obtaining similarity variables are applied to the Burgers' equation $u(\text{sub } y) + u(\text{u sub } x) = u \text{ sub } xx$ and to the laminar boundary layer equations with a pressure gradient. In all cases considered, new types of similarity variables are found. In addition, the auxiliary conditions are discussed in the light of the new similarity variables obtained for the boundary layer equations. (Author).
Official Gazette of the United States Patent Office SEG Books
This volume contains the proceedings of the Sixth International Symposium on Computer and Information Sciences (ISCIS VI), organised by the Bilkent University in Ankara, Turkey. Topics addressed by contributing authors include: Databases, Object-Oriented Systems, Software Engineering, Theoretical Computer Science, Computer Networks, Artificial Intelligence, Parallel Processing, Neural Networks, Image Processing, Computational Linguistics and Computer-aided Learning. Distributed Systems, Operating Systems, and Computer Graphics are also treated.
Image Feature Detectors and Descriptors World Scientific
Every mathematician (beginner, amateur, and professional alike) thrills to find simple, elegant solutions to seemingly difficult problems. Such happy resolutions are called 'aha! solutions,' a phrase popularized by mathematics and science writer Martin Gardner. Aha! solutions are surprising, stunning, and scintillating: they reveal the beauty of mathematics. This collection includes one hundred problems in the areas of arithmetic, geometry, algebra, calculus, probability, number theory, and combinatorics. The problems start out easy and generally get more difficult as you progress through the book. A few solutions require the use of a computer. An important feature of the book is the discussion of related mathematics that follows the solution of each problem. This material is there to entertain and inform you or point you to new questions.
Problems and Solutions for Groups, Lie Groups, Lie Algebras with Applications Nova Publishers
The series is edited by the head coaches of China's IMO National Team. Each volume, catering to different grades, is contributed by the senior coaches of the IMO National Team. The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China.The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades. All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level.In each chapter, well-designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems. Detailed solutions are provided selectively. As a feature of the series, we also include some solutions generously offered by the members of Chinese national team and national training team.
Actions of Groups Springer
As an extensive collection of problems with detailed solutions in introductory and advanced matrix calculus, this self-contained book is ideal for both graduate and undergraduate mathematics students. The coverage includes systems of linear equations, linear differential equations, functions of matrices and the Kronecker product. Many of the problems are related to applications in areas such as group theory, Lie algebra theory and graph theory. Thus, physics and engineering students will also benefit from the book. Exercises for matrix-valued differential forms are also included.
Publications of the Dominion Astrophysical Observatory MAA
During the second half of the twentieth century, Ann Brown was one of the world's premier researchers into the cognitive development of young children. Sponsored by the Spencer Foundation, this edited festschrift honors her work and memory by bringing together a collection of original studies that extend many of the theories and themes of Brown's earlier work. Most of the contributors are researchers who once worked with Brown.
Competition, Collusion, and Game Theory World Scientific
Using the unifying notion of group actions, this second course in modern algebra introduces the deeper algebraic tools needed to get into topics only hinted at in a first course, like the successful classification of finite simple groups and how groups play a role in the solutions of polynomial equations. Because groups may act as permutations of a set, as linear transformations on a vector space, or as automorphisms of a field, the deeper structure of a group may emerge from these viewpoints, two different groups can be distinguished, or a polynomial equation can be shown to be solvable by radicals. By developing the properties of these group actions, readers encounter essential algebra topics like the Sylow theorems and their applications, Galois theory, and representation theory. Warmup chapters that review and build on the first course and active learning modules help students transition to a deeper understanding of ideas.
Annalen der Sternwarte in Leiden Springer
This is the second of three volumes devoted to elementary finite p-group theory. Similar to the first volume, hundreds of important results are analyzed and, in many cases, simplified. Important topics presented in this monograph include: (a) classification of p-groups all of whose cyclic subgroups of composite orders are normal, (b) classification of 2-groups with exactly three involutions, (c) two proofs of Ward's theorem on quaternion-free groups, (d) 2-groups with small centralizers of an involution, (e) classification of 2-groups with exactly four cyclic subgroups of order $2n > 2$, (f) two new proofs of Blackburn's theorem on minimal nonmetacyclic groups, (g) classification of p-groups all of whose subgroups of index p^2 are abelian, (h) classification of 2-groups all of whose minimal nonabelian subgroups have order 8, (i) p-groups with cyclic subgroups of index p^2 are classified. This volume contains hundreds of original exercises (with all difficult exercises being solved) and an extended list of about 700 open problems. The book is based on Volume 1, and it is suitable for researchers and graduate students of mathematics with a modest background on algebra.
Problems And Solutions In Mathematical Olympiad (High School 3) Elsevier Publishing Company
This is the most current textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem. Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by

problems and solutions. Contents: Tools and Major Results of Groups; Problems in Group Theory; Tools and Major Results of Ring Theory; Problems in Ring Theory; Index.

Linear Groups World Scientific

VlseKriterijumska Optimizacija I Kompromisno Resenje (VIKOR) is a popular strategy for multi- attribute decision making (MADM). We extend the VIKOR strategy for MAGDM problems in trapezoidal neutrosophic number environment. In decision making situation, single-valued trapezoidal neutrosophic numbers are employed to express the attribute values. Then we develop an extended VIKOR strategy to deal with MAGDM in single-valued trapezoidal neutrosophic number environment. The influence of decision-making mechanism coefficient is presented. To illustrate and validate the proposed VIKOR strategy, an illustrative numerical example of MAGDM problem is solved in trapezoidal neutrosophic number environment.

Problems and Solutions in Introductory and Advanced Matrix Calculus Springer Science & Business Media

This book collects more than thirty contributions in memory of Wolfgang Schwarz, most of which were presented at the seventh International Conference on Elementary and Analytic Number Theory (ELAZ), held July 2014 in Hildesheim, Germany. Ranging from the theory of arithmetical functions to diophantine problems, to analytic aspects of zeta-functions, the various research and survey articles cover the broad interests of the well-known number theorist and cherished colleague Wolfgang Schwarz (1934-2013), who contributed over one hundred articles on number theory, its history and related fields. Readers interested in elementary or analytic number theory and related fields will certainly find many fascinating topical results among the contributions from both respected mathematicians and up-and-coming young researchers. In addition, some biographical articles highlight the life and mathematical works of Wolfgang Schwarz.

Cognitive Development and Cognitive Neuroscience Springer

The Landau Institute for Theoretical Physics was created in 1965 by a group of LD Landau's pupils. Very soon, it was widely recognized as one of the world's leading centers in theoretical physics. According to Science Magazine, the Institute in the eighties had the highest citation index among all the scientific organizations in the former Soviet Union. This collection of the best papers of the Institute reflects the development of the many directions in the exact sciences during the last 30 years. The reader can find the original formulations of well-known notions in condensed matter theory, quantum field theory, mathematical physics and astrophysics, which were introduced by members of the Landau Institute.The following are some of the achievements described in this book: monopoles (A Polyakov), instantons (A Belavin et al.), weak crystallization (S Brazovskii), spin superfluidity (I Fomin), finite band potentials (S Novikov) and paraconductivity (A Larkin, L Aslamasov).

Similarity Solutions for Partial Differential Equations Generated by Finite and Infinitesimal Groups World Scientific Publishing Company

This book uses the entire flying process, starting from ground launching of the orbital transfer vehicle (OTV) to injecting payload into earth synchronous orbit, as an example for real-world engineering practices. It discusses in detail the analysis design and integrated OTV navigation and guidance system technologies in combination with the engineering experiences of the authors in analysis, design and integrated OTV navigation and guidance system applications, and the research on navigation and guidance theories. It focuses on establishing motion of air vehicle equations, control system hardware components, orbit prediction technology, inertial navigation and initial alignment technologies, INS/GNSS integrated navigation technologies, INS/CNS integrated navigation technologies, redundant fault tolerance and failure reconfiguration technology of inertial sensors, guidance and midcourse correction technologies and orbit control strategies. The book is a valuable reference book for the engineers, technicians and researchers who are engaged in analysis, design and integrated application of OTV navigation and guidance control systems. It can also be used as teaching material for postgraduates and senior undergraduates majoring in OTV navigation and guidance systems and other related subjects.

Complexity and Randomness in Group Theory Infinite Study

This book shows new directions in group theory motivated by computer science. It reflects the transition from geometric group theory to group theory of the 21st century that has strong connections to computer science. Now that geometric group theory is drifting further and further away from group theory to geometry, it is natural to look for new tools and new directions in group theory which are present.