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Discrete Mathematics And Applications Journal

Discrete Mathematics and Applications provides the latest information on the development of discrete mathematics in Russia to a world-wide readership. The journal contains papers from the Russian-language journal Diskretnaya Matematika, the only journal of the Russian Academy of Sciences devoted to this field of mathematics.

## Discrete Mathematics and Applications | De Gruyter

The Advances and Applications in Discrete Mathematics is a peer reviewed journal devoted to the publication of original research articles lying within the domain of discrete mathematics and combinatorics which includes graphs, hypergraphs, logic, coding theory and block design. The journal encourages articles in these areas having efficient and powerful tools for applications in the real world problems related to discrete geometry, discrete probability theory, networking and information ...

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## Discrete Applied Mathematics - Journal - Elsevier

Discrete Mathematics, Algorithms and Applications. The aim of this journal is to advance and promote the theory and applications of discrete mathematics, which is a research area in mathematics with applications in computer science, industrial engineering, bio-informatics, chemistry and communication networks.

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journal. ... Algorithms and Applications, Košice 2013. Edited by Mirko Horáček, Zdeněk Ryjáček, Martin Škoviera. 6 October 2015. View all article collections. View all issues.

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The focus of the module is on basic mathematical concepts in discrete mathematics and on applications of discrete mathematics in algorithms and data structures. To show students how discrete mathematics can be used in modern computer science (with the focus on algorithmic applications).

## CS136 Discrete Mathematics and its Applications 1

Correction on " Lower bounds on edge critical graphs with maximum degree of 7, 8 and 9 " advances and applications in Discrete Mathematics V5(N2) (2010), 97-113 Article Jan 2011

## Advances and Applications in Discrete Mathematics

SIAM Journal on Discrete Mathematics; SIAM Journal on Matrix Analysis and Applications; SIAM Journal on Scientific Computing; SIAM Review; Siberian Mathematical Journal; Simon Stevin; Statistics in Medicine; Statistics Surveys; Stochastics and Dynamics; Studia Mathematica; Studies in Applied Mathematics

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## Number Theory & Discrete Mathematics | Journal | Springer

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We invite you to submit your latest research in the area of discrete optimization to this Special Issue, “ Discrete Optimization: Theory, Algorithms, and Applications ” in the journal Mathematics. We are looking for new and innovative approaches for solving discrete optimization problems exactly or approximately.

Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research. Each chapter presents new methods and techniques by leading experts. Unifying interdisciplinary applications, problems, and approaches of discrete mathematics, this book connects topics in graph theory, combinatorics, number theory, cryptography,

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dynamical systems, finance, optimization, and game theory. Graduate students and researchers in optimization, mathematics, computer science, economics, and physics will find the wide range of interdisciplinary topics, methods, and applications covered in this book engaging and useful.

Algebraic combinatorics is the study of combinatorial objects as an extension of the study of finite permutation groups, or, in other words, group theory without groups. In the spirit of Delsarte's theory, this book studies combinatorial objects such as graphs, codes, designs, etc. in the general framework of association schemes, providing a comprehensive overview of the theory as well as pointing out to extensions.

This concise, readable book provides a sampling of the very large, active, and expanding field of artificial neural network theory. It considers select areas of discrete mathematics linking combinatorics and the theory of the simplest types of artificial neural networks. Neural networks have emerged as a key technology in many fields of application, and an understanding of the theories concerning what such systems can and cannot do is essential. Some classical results are presented with accessible proofs, together with some more recent perspectives, such as those obtained by considering decision lists. In addition, probabilistic models of neural network learning are discussed. Graph theory, some partially ordered set theory, computational complexity, and discrete probability are among the mathematical topics involved. Pointers to further reading and an extensive bibliography make this book a good starting point for research in discrete mathematics and neural networks.

This well-organized reference is a definitive encyclopedia for the literature on graph classes. It contains a

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survey of more than 200 classes of graphs, organized by types of properties used to define and characterize the classes, citing key theorems and literature references for each. The authors state results without proof, providing readers with easy access to far more key theorems than are commonly found in other mathematical texts. Interconnections between graph classes are also provided to make the book useful to a variety of readers.

This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern/abstract algebra and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and computation. \* Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals \* Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development and correctness, and numeric computations \* Weaves numerous applications into the text \* Helps students learn by doing with a wealth of examples and exercises: - 560 examples worked out in detail - More than 3,700 exercises - More than 150 computer assignments - More than 600 writing projects \* Includes chapter summaries of important vocabulary, formulas, and properties, plus the chapter review exercises \* Features interesting anecdotes and biographies of 60 mathematicians and computer scientists \* Instructor's Manual available for adopters \* Student Solutions Manual available separately for purchase (ISBN: 0124211828)

The contributions to this volume have all been translated from the first volume of the Russian journal

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Discrete Analysis and Operational Research, published at the Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia, in 1994. The papers collected here give an excellent overview of recent Russian research in topics such as analysis of algorithms, combinatorics, graphs, lower bounds for complexity of Boolean functions, packing and coverings, scheduling theory, search and sorting, linear programming, and testing. Audience: This book will be of interest to specialists in discrete mathematics and computer science, and engineers.

This book covers discrete mathematics both as it has been established after its emergence since the middle of the last century and as its elementary applications to cryptography. It can be used by any individual studying discrete mathematics, finite mathematics, and similar subjects. Any necessary prerequisites are explained and illustrated in the book. As a background of cryptography, the textbook gives an introduction into number theory, coding theory, information theory, that obviously have discrete nature. Designed in a “ self-teaching ” format, the book includes about 600 problems (with and without solutions) and numerous, practical examples of cryptography. FEATURES: Designed in a “ self-teaching ” format, the book includes about 600 problems (with and without solutions) and numerous examples of cryptography Provides an introduction into number theory, game theory, coding theory, and information theory as background for the coverage of cryptography Covers cryptography topics such as CRT, affine ciphers, hashing functions, substitution ciphers, unbreakable ciphers, Discrete Logarithm Problem (DLP), and more.

Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material

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is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

This book is devoted to a rapidly developing branch of the qualitative theory of difference equations with or without delays. It presents the theory of oscillation of difference equations, exhibiting classical as well as very recent results in that area. While there are several books on difference equations and also on oscillation theory for ordinary differential equations, there is until now no book devoted solely to oscillation theory for difference equations. This book is filling the gap, and it can easily be used as an encyclopedia and reference tool for discrete oscillation theory. In nine chapters, the book covers a wide range of subjects, including oscillation theory for second-order linear difference equations, systems of difference equations, half-linear difference equations, nonlinear difference equations, neutral difference equations, delay difference equations, and differential equations with piecewise constant arguments. This book summarizes almost 300 recent research papers and hence covers all aspects of discrete oscillation theory that have been discussed in recent journal articles. The presented theory is illustrated with 121 examples throughout the book. Each chapter concludes with a section that is devoted to notes and bibliographical and historical remarks. The book is addressed to a wide audience of specialists such as

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mathematicians, engineers, biologists, and physicists. Besides serving as a reference tool for researchers in difference equations, this book can also be easily used as a textbook for undergraduate or graduate classes. It is written at a level easy to understand for college students who have had courses in calculus.

Finally there is a book that presents real applications of graph theory in a unified format. This book is the only source for an extended, concentrated focus on the theory and techniques common to various types of intersection graphs. It is a concise treatment of the aspects of intersection graphs that interconnect many standard concepts and form the foundation of a surprising array of applications to biology, computing, psychology, matrices, and statistics.

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