

SERIES MATHEMATICS AND ITS APPLICATIONS

Discrete Mathematical Structures

A Succinct Foundation



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CRC Press
Taylor & Francis Group

Discrete Mathematical Structures 1st Edition

Huangqi Zhang



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Discrete Mathematical Structures G. Shanker Rao, 2007-12-31 About the Book This text can be used by the students of mathematics and computer science as an introduction to the fundamentals of discrete mathematics The book is designed in accordance with the syllabi of B E B Tech MCA and M Sc Computer Science prescribed in most of the universities of India Each chapter is supplemented with a number of worked example as well as a number of problems to be solved by the students This would help in a better understanding of the subject Contents Mathematical Logic Set Theory Relations Functions and Recurrence Relations Boolean Algebra Logic Gates Elementary Combinatorics Graph Theory Algebraic Structures Finite State Machines

Discrete Mathematical Structures Bernard Kolman, Robert Busby, Sharon C. Ross, 2014-01-14 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book *Discrete Mathematical Structures Sixth Edition* offers a clear and concise presentation of the fundamental concepts of discrete mathematics Ideal for a one semester introductory course this text contains more genuine computer science applications than any other text in the field This book is written at an appropriate level for a wide variety of majors and non majors and assumes a college algebra course as a prerequisite

Discrete Mathematical Structures Kolman, 1996

Concise Introduction to Logic and Set Theory Iqbal H. Jibril, Hemen Dutta, Ilwoo Cho, 2021-09-30 This book deals with two important branches of mathematics namely logic and set theory Logic and set theory are closely related and play very crucial roles in the foundation of mathematics and together produce several results in all of mathematics The topics of logic and set theory are required in many areas of physical sciences engineering and technology The book offers solved examples and exercises and provides reasonable details to each topic discussed for easy understanding The book is designed for readers from various disciplines where mathematical logic and set theory play a crucial role The book will be of interested to students and instructors in engineering mathematics computer science and technology

A Course In Discrete Mathematical Structures Lekh Rej Vermani, Shalini Vermani, 2012-01-13 This book provides a broad introduction to some of the most fascinating and beautiful areas of discrete mathematical structures It starts with a chapter on sets and goes on to provide examples in logic applications of the principle of inclusion and exclusion and finally the pigeonhole principal Computational techniques including the principle of mathematical induction are provided as well as a study on elementary properties of graphs trees and lattices Some basic results on groups rings fields and vector spaces are also given the treatment of which is intentionally simple since such results are fundamental as a foundation for students of discrete mathematics In addition some results on solutions of systems of linear equations are discussed a

Engineering Mathematics - Volume Ii Pal Madhumangal, pal Anita, *Discrete Mathematics*: Babu Ram, 1900 *Discrete Mathematics* will be of use to any undergraduate as well as post graduate courses in Computer Science and Mathematics The syllabi of all these courses have been studied in depth and utmost care has been taken to ensure that

all the essenti **Mathematics for Effective Management** Saravi, Masoud,2025-01-31 Mathematics is essential for effective management providing essential tools to make informed decisions in a complex business environment From analyzing data for trend prediction to managing risks and evaluating performance mathematical techniques offer a systematic approach to problem solving Managers can transform data into actionable insights streamline resource allocation and drive strategic planning Further research into mathematics in business is necessary to enhance decision making accuracy while empowering organizations to achieve their goals and adapt to evolving challenges Mathematics for Effective Management covers various forms of mathematics such as algebra calculus and statistics for effective management practices in business It utilizes mathematics problems to show how businesses may analyze data forecast outcomes and optimize resources This book covers topics such as management science linear programming and calculus and is a useful resource for mathematicians education professionals statisticians computer engineers academicians scientists and researchers

Discrete Mathematical Structures Mario Benedicty, Frank R. Sledge, 1987 [Discrete Mathematical Structures](#) Bernard Kolman, Robert C. Busby, Sharon Cutler Ross, 2004 Combining a careful selection of topics with coverage of their genuine applications in computer science this book more than any other in this field is clearly and concisely written presenting the basic ideas of discrete mathematical structures in a manner that is understandable Limiting its scope and depth of topics to those that readers can actually utilize this book covers first the fundamentals then follows with logic counting relations and digraphs functions order relations and structures trees graph theory semigroups and groups languages and finite state machines and groups and coding With its comprehensive appendices and index this book can be an excellent reference work for mathematicians and those in the field of computer science **Discrete Mathematical**

Structures Mario Benedicty, Frank R. Sledge, 1985 **Discrete Mathematical Structures** B. V. Senthil Kumar, Hemen Dutta, 2019-07-08 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily The concepts of discrete mathematical structures have application to computer science engineering and information technology including in coding techniques switching circuits pointers and linked allocation error corrections as well as in data networking Chemistry Biology and many other scientific areas The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics Computer Science Engineering and Information Technology The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities Readers will find solved examples and end of chapter exercises to enhance reader comprehension Features Offers comprehensive coverage of basic ideas of Logic Mathematical Induction Graph Theory Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with

discrete structures **ADVANCED ENGINEERING MATHEMATICS** SASTRY, S. S.,2009-07-30 This is a sequel to the author s earlier books Engineering Mathematics Vols I and II both well received by the students and the academics As this book deals with advanced topics in engineering mathematics which undergraduate students in engineering and postgraduate students in mathematics and allied disciplines have to study as part of their course requirements the title of Advanced Engineering Mathematics has been considered more suitable This well organised and accessible text discusses in detail the advanced mathematical tools and techniques required for engineering problems The book begins with Fourier series and goes on to give an indepth analysis of Fourier transform Mellin transforms and Z transforms It then examines the partial differential equations with an emphasis on the method of separation of variables applied to the solution of initial boundary value problems involving the heat wave and Laplace equations Discrete mathematics and its applications are covered in a separate chapter as the subject has wide applications in computer science In addition the book presents some of the classical problems of the calculus of variations including the brachistochrone problem The text concludes with a discussion on tensor analysis which has important applications in the study of continuum mechanics theory of relativity and elasticity Intended primarily as a text for undergraduate students of engineering postgraduate students of mathematics M Sc and master of computer applications MCA the book would be of great benefit also to practising engineers Key Features The topics given are application oriented and are selected keeping in view their use in various engineering disciplines Exercises are provided at the end of each section to test the student s comprehension A large number of illustrative examples are given to help students understand the concepts better **Book Catalog of the Library and Information Services Division: Subject**

index Environmental Science Information Center. Library and Information Services Division,1977 *Book catalog of the Library and Information Services Division* Environmental Science Information Center. Library and Information Services Division,1977 **Discrete Mathematical Structures** KOLMAN BERNARD,BUSBY ROBERT C,1999 Combining a careful

selection of topics with coverage of their genuine applications in computer science this book more than any other in this field is clearly and concisely written presenting the basic ideas of discrete mathematical structures in a manner that is understandable Limiting its scope and depth of topics to those that readers can actually utilize this book covers first the fundamentals then follows with logic counting relations and digraphs functions order relations and structures trees graph theory semigroups and groups languages and finite state machines and groups and coding With its comprehensive appendices and index this book can be an excellent reference work for mathematicians and those in the field of computer science **GATE AND PGECET FOR COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, Second Edition** RAMAIAH K, DASARADH,2019-11-01 Graduate Aptitude Test in Engineering GATE is one of the recognized national level examinations that demands focussed study along with forethought systematic planning and exactitude Postgraduate Engineering Common Entrance Test PGECET is also one of those examinations a student has to face to get admission in

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