

Revised Edition

A TEXTBOOK OF **DISCRETE MATHEMATICS**

For B.E./B. Tech., B.Sc., M.Sc. (Computer Science), BCA, MCA
and Computer Related Other Professional Courses



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S. CHAND

Discrete Mathematics By Swapan Kumar Sarkar Fileguru

Norman Biggs



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A Textbook of Discrete Mathematics, 9th Edition Sarkar, Swapan Kumar, This textbook provides an introduction to some fundamental concepts in Discrete Mathematics and the important role this subject plays in computer science Every topic in this book has been started with necessary introduction and developed gradually up to the standard form The book lays emphasis on the applicability of Mathematical structures to computer science The content of this book is well supported with numerous solved examples with detailed explanation A Textbook of Discrete Mathematics DR. SWAPAN KUMAR SARKAR, This comprehensive textbook offers a rigorous yet accessible introduction to fundamental concepts in discrete mathematics designed for undergraduate and graduate students in computer science computer engineering including diploma and degree levels BCA MCA and other IT related professional programs Discrete Mathematics Krishna R. Kumar,2005-12 **Discrete Mathematics** S. K. Chakraborty,B. K. Sarkar,2011-02-10 Discrete Mathematics is designed to serve as a textbook for undergraduate engineering students of computer science and postgraduate students of computer applications The book would also prove useful to post graduate students of mathematics It seeks to provide a thorough understanding of the subject and present its practical applications to computer science Discrete Mathematics Norman Biggs,2002-12-19 Discrete mathematics is a compulsory subject for undergraduate computer scientists This new edition includes new chapters on statements and proof logical framework natural numbers and the integers and updated exercises from the previous edition **Discrete Mathematics** Richard Johnsonbaugh,2001 **Discrete Mathematics for Computer Science** Gary Haggard,John Schlipf,1991 **Discrete Mathematics and Graph Theory** Dr. Jhade Srinivas,Mr. Shambhu Sharan Srivastava,Dr. P. Mahalakshmi,Dr. Sachin Kumar Agrawal,2024-11-13 Discrete Mathematics and Graph Theory the foundational concepts and advanced topics of discrete mathematics and graph theory Designed for students and professionals in mathematics computer science and engineering it explores topics like logic set theory combinatorics graph algorithms and network flows The emphasizes problem solving rigorous proofs and real world applications making it an essential resource for mastering discrete structures and their role in computational and theoretical disciplines With clear explanations and numerous examples it bridges the gap between theory and practice effectively A Textbook of Discrete Mathematics-2/e Harish Mital,Vinay Kumar Goyal,Deepak Kumar Goyal,2022-12-27 Discrete mathematics is the part of mathematics that is devoted to the study of discrete objects Discrete mathematics provides the mathematical foundations for many computer science courses including data structures algorithms database theory automata theory computer security and operating systems This book explains the basic principles of Discrete Mathematics and structures in five sections set theory relations and functions probability and counting techniques recurrence relations propositional logic lattices and Boolean Algebra the study of graphs and trees and algebraic structures and finite state machines In this Second Edition new and revised material is added related to number theory including the well ordering principle Principles are also given of

mathematical induction division algorithm and the Euclidean algorithm with suitable examples and exercises *Discrete Mathematics* Prabhat Kr. Choudhary, Prabhat Kumar Choudhary, 2010-09-09 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 *Book Data for Discrete Mathematics* Sonal Patil, 1st, 2021-06-04 All the data which is generated needs processing and for that all mathematical modeling are also required It is necessary to study all about discrete mathematics while dealing with all methodologies of networking Compiler Theory of Computer Science This book explains discrete mathematics at a level appropriate for second year undergraduate students Bachelor of Engineering and Technology Master of Computer Applications and Master of Science Mathematics degree level The book began as a set of notes for the Discrete Mathematics course This course serves both as a survey of the topics in discrete math and as the bridge course for math majors The contents of the book are of course mathematical but they have many applications in Computer Science and Electronics The book is self sufficient and requires minimal mathematical computer science prerequisites The concepts and basic theory presented in the text would be sufficient to understand advanced computer science applications **Discrete Mathematics** Iyengar, N.Ch. S.N./Chandrasekaran V.M./Venkalesh K.A. & Arunachalam P.S., 2003-11-01 Student friendly and comprehensive this book covers topics such as Mathematical Logic Set Theory Algebraic Systems Boolean Algebra and Graph Theory that are essential to the study of Computer Science in great detail *Discrete Mathematics* , 2014 **Basics of discrete mathematics** Rakesh Kumar Pandey, Discrete Mathematics , Discrete Mathematics Babu Ram, 2012 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 essential topics in discrete structures are adequately emphasized The book will enable the students to develop the requisite computational skills needed in software engineering A Textbook Of Discrete

Mathematics Harish Mittal, Vinay Kumar Goyal, Deepak Kumar Goyal, 2010-01-01 This book explains the basic principles of Discrete Mathematics and Structures in a clear systematic manner. A contemporary approach is adopted throughout the book. The book is divided into five sections. First section discusses Set Theory, Relations and Functions, Probability and Counting Techniques. Second section is about Recurrence Relations and Propositional Logic. Third section is related to Lattices and Boolean algebra. Fourth section includes study of Graph and Trees, and the last section is about Algebraic Structures and Finite State Machines. Suitable examples, illustrations, and exercises are included throughout the book to facilitate an easier understanding of the subject. The book would serve as a comprehensive text for students of Computer Science Engineering, Computer Applications, and Information Technologies.

Discrete Mathematics P C Bhakta, 2014-04-07 *Discrete Mathematics with Applications, Metric Edition* Susanna S. Epp, 2019

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