

DISCRETE MATHEMATICS AND ITS APPLICATIONS

Discrete Mathematical Structures

A Succinct Foundation



B. V. Senthil Kumar
Hemen Dutta



CRC Press
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Discrete Mathematical Structures 1st Edition

**Bernard Kolman,Robert C.
Busby,Sharon Cutler Ross**



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Discrete Mathematical Structures, 1/e U.S. Gupta, 2014 Discrete Mathematical Structures provides comprehensive reasonably rigorous and simple explanation of the concepts with the help of numerous applications from computer science and engineering Every chapter is equipped with a good number of solved examples that elucidate the definitions and theorems discussed Chapter end exercises are graded with the easier ones in the beginning and then the complex ones to help students for easy solving

Concise Introduction to Logic and Set Theory Iqbal H. Jebril, 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

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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 Catalog of the Library and Information Services Division: Subject index* Environmental Science Information Center. Library and Information Services Division,1977

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 Discrete Mathematical Structures Kolman Bernard, Busby Robert C, Ross Sharon, 1997 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

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