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DISCRETE MATHEMATICAL STRUCTURES

(Fourth Edition)

■ Bernard Kolman
Robert C. Busby
Sharon Cutler Ross



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Discrete Mathematical Structures

Harold S. Stone



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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

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and are presented in a logically coherent fashion The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory For example relations and directed graphs are treated as two aspects of the same mathematical idea Whenever possible each new idea uses previously encountered material and then developed in such a way that it simplifies the more complex ideas that follow Discrete Mathematical Structures Mario

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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 *A Treatise On Discrete Mathematical Structures* Jayant Ganguly,2008-01-01 A Treatise on Discrete Mathematical Structures has been designed to build a foundation of the type of mathematical thinking that is required to be built at the basic level The approach chosen is comprehensive while maintaining an easy to follow progression from the basic mathematical concepts covered by high school algebra to the more sophisticated concepts The rigorous treatment of theory is augmented by numerous examples SP Solved Problem This is then reinforced by exercises EP Exercise Problem at the end of each chapter Further for the exercise problems whose serial number is in bold face letter a hint or solution is provided in the corresponding answer section Although this treatise aims at the learners of computer science it can very well be used by anyone who requires an

understanding of discrete mathematical concepts Features The presentation style of each chapter resembles that as done in a classroom The book is intended for anybody interested in the subject Prerequisite requirement is mostly high school mathematics Each chapter begins with an outline of the topics covered in the book Contains a large number of examples with steps over simplified Each chapter ends with a chapter summary under the heading RECAP A large number of practice problems are included with sufficient hints Many new results from recently published papers are incorporated A number of exhaustive appendices are included for those interested A problem bank is included containing problems from Mathematical Tripods examination The book is user friendly and Difficult situations are illustrated with diagrams Some interesting non mathematical but related topics are discussed in brief Contents Set Theory Relations Functions Mathematical Induction Recursive Definitions probability and Counting Elementary Concepts Fundamentals of Logic Groups coding Theory An Introduction Elementary Number Theory Rings Graph Theory Basic Formulas Matrices and Determinants and Some Results Series and their Summing Techniques An Introduction Stable Graphs A Note Problem Bank List of Symbols **Discrete Mathematical Structures for Computer Science** Bernard Kolman,Robert C. Busby,1987 *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 **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* SOMASUNDARAM, R. M.,2003-01-01 This is a comprehensive text book covering various aspects of Discrete Mathematics It suits the needs of the students of B E B Tech M E M Sc Computer Science and MCA **Discrete Mathematical Structures and Their Applications** Harold S. Stone,1973

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