

Discrete Mathematical Structures with Applications to Computer Science

**J.P. Tremblay
R. Manohar**



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Discrete Mathematical Structure With Applications To Computer Science

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Discrete Mathematical Structure With Applications To Computer Science:

Discrete Mathematical Structures with Applications to Computer Science Jean-Paul Tremblay, R. Manohar, 1987

Discrete Mathematical Structures Bernard Kolman, Robert C. Busby, Sharon Cutler Ross, 1996 This is the only discrete math text that has a thread holding the various topics together One of the shortest books on the market New to this edition stronger coverage of logic graphs and trees Also includes special student projects 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 various postgraduate programs So in order to become up to snuff for this eligibility clause qualifying GATE PGECET a student facing a very high competition should excel his/her standards to success by way of preparing from the standard books This book guides students via simple elegant and explicit presentation that blends theory logically and rigorously with the practical aspects bearing on computer science and information technology The book not only keeps abreast of all the chapterwise information generally asked in the examinations but also proffers felicitous tips in the furtherance of problem solving technique HIGHLIGHTS OF THE BOOK Systematic discussion of concepts endowed with ample illustrations Notes are incorporated at several places giving additional information on the key concepts Inclusion of solved practice exercises for verbal and numerical aptitude to guide students from practice and examination point of view Prodigious objective type questions based on the past years GATE examination questions with answer keys and in depth explanation are available at <https://www.phindia.com> GATE_AND_PGECET Every solution lasts with a reference thus providing a scope for further study The book which will prove to be an epitome of learning the concepts of CS and IT for GATE PGECET examination is purely intended for the aspirants of GATE and PGECET examinations It should also be of considerable utility and worth to the aspirants of UGC NET as well as to those who wish to pursue career in public sector units like ONGC NTPC ISRO BHEL BARC DRDO DVC Power grid IOCL and many more In addition the book is also of immense use for the placement coordinators of GATE PGECET TARGET AUDIENCE GATE PGECET Examination UGC NET Examination Examinations conducted by PSUs like ONGC NTPC ISRO BHEL BARC DRDO DVC Power grid IOCL and many more Discrete Mathematical Structures for Computer Science Bernard Kolman, Robert C. Busby, 1987 This text has been designed as a complete introduction to discrete mathematics primarily for computer science majors in either a one or two semester course The topics addressed are of genuine use in computer science 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 and Their Applications Harold S. Stone,1973

Discrete Mathematical Structures for Computer Science Ronald E. Prather,1976

Discrete Mathematics for Computer Scientists and Mathematicians Joe L. Mott,Abraham Kandel,Theodore P. Baker,1986

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

Discrete Mathematics for Computer Scientists Joe L. Mott,Abraham Kandel,Theodore P. Baker,1983 Provides computer science students with a foundation in discrete mathematics using relevant computer science applications

[An Introduction to Program Fault Tolerance](#) Ali Mili,1990

Mathematical Aspects of Natural and Formal Languages Gheorghe P?un,1994 This book contains original reviews by well known workers in the field of mathematical linguistics and formal language theory written in honour of Professor Solomon Marcus on the occasion of his 70th birthday Some of the papers deal with contextual grammars a class of generative devices introduced by Marcus motivated by descriptive linguistics Others are devoted to grammar systems a very modern branch of formal language theory Automata theory and the algebraic approach to computer science are other well represented areas While the contributions are mathematically oriented practical issues such as cryptography grammatical inference and natural language processing are also discussed

[Handbook of Formal Languages](#) Grzegorz Rozenberg,Arto Salomaa,2012-12-06 The need for a comprehensive survey type exposition on formal languages and related mainstream areas of computer science has been evident for some years If the early 1970s when the book Formal Languages by the second quite feasible to write a comprehensive mentioned editor appeared it was still book with that title and include also topics of current research interest This would not be possible anymore A standard sized book on formal languages would either have to stay on a fairly low level or else be specialized and restricted to some narrow sector of the field The setup becomes drastically different in a collection of contributions where the best authorities in the world join

forces each of them concentrating on their own areas of specialization. The present three volume Handbook constitutes such a unique collection. In these three volumes we present the current state of the art in formal language theory. We were most satisfied with the enthusiastic response given to our request for contributions by specialists representing various subfields. The need for a Handbook of Formal Languages was in many answers expressed in different ways as an easily accessible historical reference, a general source of information, an overall course aid, and a compact collection of material for self study. We are convinced that the final result will satisfy such various needs. The theory of formal languages constitutes the stem or backbone of the field of science now generally known as theoretical computer science.

Mathematics and Logics in Computer Science Atul Chaturvedi, Bimal Kumar Roy, Boaz Tsaban, 2026-03-06. This book presents high quality research papers presented at the International Conference on Mathematics and Logics in Computer Science ICMLCS 2025 held at Allenhouse Institute of Technology Kanpur India during 26-27 July 2025. The book covers recent research in data science, network security, theory of computing, cloud computing, coding theory, linear algebra, and its applications in machine learning, artificial intelligence, block chain, deep learning, graph theory, cryptography, cyber security, internet of things, quantum computing, and steganography.

Symmetry of Discrete Mathematical Structures and Their Symmetry Groups Karl Heinrich Hofmann, Rudolf Wille, 1991.

Recent Trends in Cryptography Ignacio Luengo, 2009-01-15. This volume contains articles representing the courses given at the 2005 RSME Santalo Summer School on Recent Trends in Cryptography. The main goal of the Summer School was to present some of the recent mathematical methods used in cryptography and cryptanalysis. The School was oriented to graduate and doctoral students as well as recent doctorates. The material is presented in an expository manner with many examples and references. The topics in this volume cover some of the most interesting new developments in public key and symmetric key cryptography such as pairing based cryptography and lattice based cryptanalysis.

Proceedings, 1973. **Computing** Anthony Hyman, 1976. **Discrete mathematical structures for computer science** Ronald E. Prather, 1976-01-01. *Entity-relationship Approach* S. Spaccapietra, 1987. [Discrete Mathematical Structures and Their Applications](#) Harold S. Stone, 1973.

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