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# Discrete Mathematics By Balaji

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Discrete Mathematics  
Advances in Pattern Recognition ICAPR2003  
Discrete Mathematical Structures  
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Topics in Discrete Mathematics  
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Discrete Mathematics and Graph Theory  
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DISCRETE MATHEMATICS, THIRD EDITION  
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Comprehensive Discrete Mathematics  
Discrete Mathematical Structures  
Fundamental Approach to Discrete Mathematics  
DISCRETE MATHEMATICS  
Number Theory and Discrete Mathematics  
ELEMENTS OF DISCRETE MATHEMATICS

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## WELCH MORGAN

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**Discrete Mathematics** Courier Corporation

This concise, undergraduate-level text focuses on combinatorics, graph theory with applications to some standard network optimization problems, and algorithms. More than 200 exercises, many with complete solutions. 1991 edition.

**Advances in Pattern Recognition**

**ICAPR2003** Ram Prasad Publications(R.P.H.)

This book has been written according to the latest syllabi for B. Tech. & M.C.A. courses of Punjab Technical University and other technical universities of India. The previous years' university questions papers have been solved systematically and logically in each chapter. It is intended to help students better understand the concepts and ideas of discrete structures.

Discrete Mathematical Structures

Pearson Education India

1. Indian Logic 1-5 2. Relations, Equivalence Classes and Partition of a set 6-25 3. Partial Order Relation and Lattices 26-48 4. Boolean Algebra and Boolean Function 49-89 5. Graphs and Sub-graphs 90-111 6. Walk, Paths, Circuits, Weighted Graphs and Shortest Path 112-150 7. Trees and its Simple Properties 151-189 8. Matrix Representation of a Graph, Cut Sets and Planar Graph 190-216

*Discrete Mathematics* CRC Press

Advance discrete structure is a compulsory paper in most of computing programs (M.Tech, MCA, M.Sc, B.Tech, BCA, B. Sc etc.). This book has been written to fulfill the requirements of graduate and post-graduate students pursuing courses in mathematics as w

**Topics in Discrete Mathematics**

Createspace Independent Publishing Platform

Description:This book is intended to be a textbook for the student pursuing B.E.B.Tech in Computer Science or MCAM Tech and NIELIT - B & C Level or equivalent courses. Topics included are self contained. Sequence is maintained in such a way that no prerequisite is necessary. This book contains topics ranging from set, relation, recurrence relation, generating function, posets, lattice, methods of proofs, Quine McKluskey Method, Floyd Warshall's algorithm, finite automata, bipartite graph etc. Only necessary theorems have been included, and wherever required, theirs applicability has been demonstrated using appropriate examples. Whenever required, a diagram is used to make the concept easily understood to the reader. It contains good number of solved examples and exercises for hands on practice.

Table of Contents:Chapter 1 : Seti Chapter 2 : Relationi Chapter 3 : Number Theoryi Chapter 4 : Functioni Chapter 5 : Predicate Calculusi Chapter 6 : Poseti Chapter 7 : Latticei Chapter 8 : Finite Boolean Algebrai Chapter 9 : Recursive Equationsi Chapter 10 : Generating Functioni Chapter 11 : Method Of Proofsi Chapter 12 : Permutationi Chapter 13 : Combinationi Chapter 14 : Groupi Chapter 15 : Cyclic Groupi Chapter 16 : Permutationi Chapter 17 : Matrixi Chapter 18 : Graphi Chapter 19 : Path and Circuiti Chapter 20 : Graph Algorithmsi Chapter 21 : Formal Languagei Chapter 22 : Finite Automatai Chapter 23 : Galois Field

Discrete Mathematics Krishna Prakashan Media

Discrete Mathematics and its Applications provides an in-depth review

of recent applications in the area and points to the directions of research. It deals with a wide range of topics like Cryptology Graph Theory Fuzzy Topology Computer Science Mathematical Biology A resource for researchers to keep track of the latest developments in these topics. Of interest to graph theorists, computer scientists, cryptographers, security specialists.

*Discrete Mathematics and Graph Theory*  
Allied Publishers

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* BPB Publications  
RAM PRASAD, RP UNIFIED, RPP, GANIT,  
THAKUR KISHAN

*Foundations of Discrete Mathematics with Algorithms and Programming* PHI Learning Pvt. Ltd.

About the Book: The book `Fundamental Approach to Discrete Mathematics` is a required part of pursuing a computer science degree at most universities. It provides in-depth knowledge to the subject for beginners and stimulates further interest in the topic. The salient features of this book include: Strong coverage of key topics involving recurrence relation, combinatorics, Boolean algebra, graph theory and fuzzy set theory. Algorithms and examples integrated throughout the book to bring clarity to the fundamental concepts. Each concept and definition is followed by thoughtful examples.

*Discrete Mathematics* Laxmi Publications, Ltd.

Discrete Mathematics provides an introduction to some of the fundamental concepts in modern mathematics. Abundant examples help explain the principles and practices of discrete mathematics. The book intends to cover material required by readers for whom mathematics is just a tool, as well as provide a strong foundation for mathematics majors. The vital role that discrete mathematics plays in computer science is strongly emphasized as well. The book is useful for students and instructors, and also software professionals.

**DISCRETE MATHEMATICS** Springer  
Written with a strong pedagogical focus, the third edition of the book continues to provide an exhaustive presentation of

the fundamental concepts of discrete mathematical structures and their applications in computer science and mathematics. It aims to develop the ability of the students to apply mathematical thought in order to solve computation-related problems. The book is intended not only for the undergraduate and postgraduate students of mathematics but also, most importantly, for the students of Computer Science & Engineering and Computer Applications. The book is replete with features which enable the building of a firm foundation of the underlying principles of the subject and also provides adequate scope for testing the comprehension acquired by the students. Each chapter contains numerous worked-out examples within the main discussion as well as several chapter-end Supplementary Examples for revision. The Self-Test and Exercises at the end of each chapter include a large number of objective type questions and problems respectively. Answers to objective type questions and hints to exercises are also provided. All these pedagogic features, together with thorough coverage of the subject matter, make this book a readable text for beginners as well as advanced learners of the subject.

**NEW TO THIS EDITION** • Question Bank consisting of questions from various University Examinations • Updated chapters on Boolean Algebra, Graphs and Trees as per the recent syllabi followed in Indian Universities

**TARGET AUDIENCE** • BE/B.Tech (Computer Science and Engineering) • MCA • M.Sc (Computer Science/Mathematics)

Discrete Mathematics PHI Learning Pvt. Ltd.

Now in its second edition, this text provides an exhaustive presentation of

the fundamental concepts of discrete mathematical structures and their applications in computer science and mathematics. It aims to develop the ability of the students to apply mathematical thought in order to solve computation-related problems.

**Introductory Discrete Mathematics**  
Firewall Media

Discrete Mathematics has permeated the whole of mathematics so much so it has now come to be taught even at the high school level. This book presents the basics of Discrete Mathematics and its applications to day-to-day problems in several areas. This book is intended for undergraduate students of Computer Science, Mathematics and Engineering. A number of examples have been given to enhance the understanding of concepts. The programming languages used are Pascal and C.

**Comprehensive Discrete Mathematics and Structures** New Age International

The objective of the book is to enhance the knowledge on discrete mathematics. This book contains six chapters. It covers logic and proofs, combinatorics, Graphs, Algebraic Structures, Lattices and Boolean Algebra and Set Theory. This book is very useful to Undergraduate computer Science students, computer science engineering Students and post graduate computer science students. This book covers Anna University Syllabus for computer science engineering students.

**Discrete Mathematics** New Age International

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* Ram Prasad  
Publications(R.P.H.)

The Fifth Edition Of The Book 'Discrete Mathematics And Structures' Is An Outcome Of Author'S Continuous Discussions With His Colleagues And Students. Unlike Other Books, This Book Helps The Readers To Develop Mathematical Maturity And Understand The Basic Concepts Of Discrete Mathematics And Structures. Extensive In Its Coverage, Each New Concept Is Gently Introduced And Then Reinforced By A Lot Of Solved Examples. Questions From Various Examinations Have Been Incorporated To Enable The Students To Understand The Latest Trends In Paper-Setting.

**Discrete Mathematics** PHI Learning Pvt. Ltd.

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  
*Advance Discrete Structure* Laxmi Publications

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.

### **Introductory Discrete Mathematics**

Laxmi Publications, Ltd.

The objective of this textbook is to give a comprehensive treatment of the major topics in discrete mathematics, emphasizing their applicability to problems in a highly technological world. This textbook contains plenty of worked out examples and lots of problems in the exercises. Hints are provided for tough problems enabling the students to try them. Questions from the previous university question papers have been solved. This book covers the complete curriculum requirements of B.E., M.E., MCA and M.Sc (Software Engineering) courses.

*Discrete Mathematics* Tata McGraw-Hill Education

Note: This is a custom edition of Levin's full Discrete Mathematics text, arranged specifically for use in a discrete math course for future elementary and middle school teachers. (It is NOT a new and updated edition of the main text.) This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are

introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. While there are many fine discrete math textbooks available, this text has the following advantages: - It is written to be used in

an inquiry rich course.- It is written to be used in a course for future math teachers.- It is open source, with low cost print editions and free electronic editions.

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