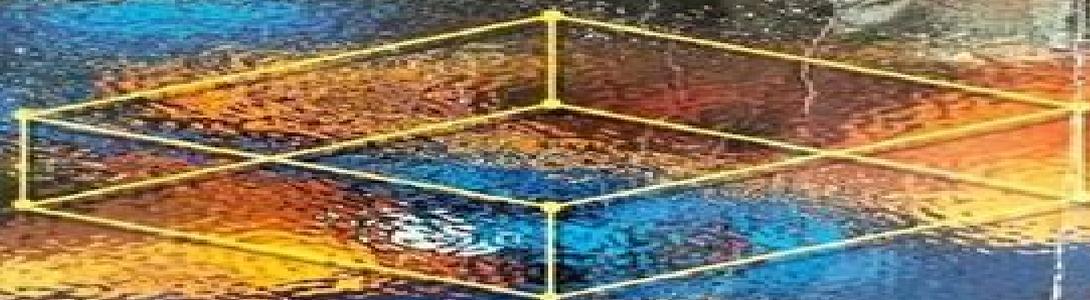


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Discrete Mathematics Babu Ram,2012 Discrete Mathematics will be of use to any undergraduate as well as post graduate courses in Computer Science and Mathematics The syllabi of all these courses have been studied in depth and utmost care has been taken to ensure that all the essential topics in discrete structures are adequately emphasized

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Essentials of Discrete Mathematics David J. Hunter,2021-03-01 Written for the one term course Essentials of Discrete Mathematics Fourth Edition is designed to serve computer science and mathematics majors as well as students from a wide range of other disciplines The mathematical material is organized around five types of thinking logical relational recursive quantitative and analytical The final chapter Thinking Through Applications looks at different ways that discrete math thinking can be applied Applications are included throughout the text and are sourced from a variety of disciplines including biology economics music and more A Beginner's Guide to Discrete Mathematics W.D. Wallis,2013-03-14 This text is a basic introduction to those areas of discrete mathematics used by students of mathematics and computer science Introductory courses on this material are now standard at many colleges and universities Usually these courses are of one semester s duration and usually they are offered at the sophomore level Very often this will be the first course where the students see several real proofs The preparation of the students is very mixed and one cannot assume a strong background In particular the instructor should not assume that the students have seen a linear algebra course or any introduction to number systems that goes beyond college algebra In view of this I have tried to avoid too much sophistication while still retaining rigor I hope I have included enough problems so that the student can reinforce the concepts Most of the problems are quite easy with just a few difficult exercises scattered through the text If the class is weak a small number of sections will be too hard while the instructor who has a strong class will need to include some supplementary material I think this is preferable to a book at a higher mathematical level which will scare away weaker students **Discrete Mathematics** Jean Gallier,2011-02-01 This book gives an introduction to discrete mathematics for beginning undergraduates One of original features of this book is that it begins with a presentation of the rules of logic as used in mathematics Many examples of formal and informal proofs are given With this logical framework firmly in place the book describes the major axioms of set

theory and introduces the natural numbers The rest of the book is more standard It deals with functions and relations directed and undirected graphs and an introduction to combinatorics There is a section on public key cryptography and RSA with complete proofs of Fermat's little theorem and the correctness of the RSA scheme as well as explicit algorithms to perform modular arithmetic The last chapter provides more graph theory Eulerian and Hamiltonian cycles are discussed Then we study flows and tensions and state and prove the max flow min cut theorem We also discuss matchings covering bipartite graphs

**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 *A Textbook on Discrete Mathematics* C V Sastry,Rakesh Nayak,2019-12-05 This book attempts to put together all the essential topics of discrete mathematical structures for easy reference The undergraduate students of computer science and engineering postgraduate students of computer applications and computer science and engineering will find this book very useful It contains several multiple choice questions under each chapter which will be useful for those who aspire to write the GATE examination This book could be a good textbook for undergraduate students of Computer Science Computer Science and Engineering and postgraduate students of Computer Applications

**Introduction to Discrete Mathematics via Logic and Proof** Calvin Jongsma,2019-11-08 This textbook introduces discrete mathematics by emphasizing the importance of reading and writing proofs Because it begins by carefully establishing a familiarity with mathematical logic and proof this approach suits not only a discrete mathematics course but can also function as a transition to proof Its unique deductive perspective on mathematical logic provides students with the tools to more deeply understand mathematical methodology an approach that the author has successfully classroom tested for decades Chapters are helpfully organized so that as they escalate in complexity their underlying connections are easily identifiable Mathematical logic and proofs are first introduced before moving onto more complex topics in discrete mathematics Some of these topics include Mathematical and structural induction Set theory Combinatorics Functions relations and ordered sets Boolean algebra and Boolean functions Graph theory Introduction to Discrete Mathematics via Logic and Proof will suit intermediate undergraduates majoring in mathematics computer science engineering and related subjects with no formal prerequisites beyond a background in secondary mathematics

Student Handbook for Discrete Mathematics with Ducks sarah-marie belcastro,2015-07-28 Student Handbook for Discrete Mathematics with Ducks is a Student Reference Review Supplemental Learning and Example Handbook SRRSLEH that mirrors the content of the author's popular textbook Discrete Mathematics with Ducks DMwD This handbook provides a review of key material illustrative examples and new problems with accompanying solution

**Discrete Mathematics** Krishna R. Kumar,2005-12 *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

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*Discrete Mathematics*, **Discrete Mathematics** Desmond Ballard, 2017-05-22 This book is a compilation of chapters that discuss the most vital concepts in the field of discrete mathematics It discusses some of the most fundamental theories of this field in detail Discrete mathematics refers to the study of discrete mathematical structures It includes the study of logic statements integers and graphs which have separate values The branches of discrete mathematics include calculus and analysis This text attempts to understand the multiple branches that fall under this discipline and how such concepts have practical applications The topics covered in this extensive book deal with the core subjects of discrete mathematics This textbook is an essential guide for both academicians and those who wish to pursue this discipline further

**Discrete Mathematics with Proof** Eric Gossett, 2009-06-22 A Trusted Guide to Discrete Mathematics with Proof Now in a Newly Revised Edition Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon's mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found

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DISCRETE MATHEMATICS Dr. Vinay Kumar, 2018-06-06 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 their 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

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