Discrete Mathematics

William Barnier,Jean B. Chan

Discrete Mathematics :

   Discrete Mathematics: Babu Ram,1900 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 essenti   **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   *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   **Discrete Mathematics** Gary Chartrand,Ping Zhang,2011-03-31 Chartrand and Zhangs Discrete Mathematics presents a clearly written student friendly introduction to discrete mathematics The authors draw from their background as researchers and educators to offer lucid discussions and descriptions fundamental to the subject of discrete mathematics Unique among discrete mathematics textbooks for its treatment of proof techniques and graph theory topics discussed also include logic relations and functions especially equivalence relations and bijective functions algorithms and analysis of algorithms introduction to number theory combinatorics counting the Pascal triangle and the binomial theorem discrete probability partially ordered sets lattices and Boolean algebras cryptography and finite state machines This highly versatile text provides mathematical background used in a wide variety of disciplines including mathematics and mathematics education computer science biology chemistry engineering communications and business Some of the major features and strengths of this textbook Numerous carefully explained examples and applications facilitate learning More than 1 600 exercises ranging from elementary to challenging are included with hints answers to all odd numbered exercises Descriptions of proof techniques are accessible and lively Students benefit from the historical discussions throughout the textbook   **Discrete Mathematics** Oscar Levin,2018-07-30 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 *Discrete Mathematics* Martin Aigner,2023-01-24 The advent of fast computers and the search for efficient algorithms revolutionized combinatorics and brought about the field of discrete mathematics This book is an introduction to the main ideas and results of discrete mathematics and with its emphasis on algorithms it should be interesting to mathematicians and computer scientists alike The book is organized into three parts enumeration graphs and algorithms and algebraic systems There are 600 exercises with hints and solutions to about half of them The only prerequisites for understanding everything in the book are linear algebra and calculus at the undergraduate level Praise for the German edition This book is a well written introduction to discrete mathematics and is highly recommended to every student of mathematics and computer science as well as to teachers of these topics Konrad Engel for MathSciNet Martin Aigner is a professor of mathematics at the Free University of Berlin He received his PhD at the University of Vienna and has held a number of positions in the USA and Germany before moving to Berlin He is the author of several books on discrete mathematics graph theory and the theory of search The Monthly article Turan s graph theorem earned him a 1995 Lester R Ford Prize of the MAA for expository writing and his book Proofs from the BOOK with G nter M Ziegler has been an international success with translations into 12 languages A First Course in Discrete Mathematics John C. Molluzzo,Fred Buckley,1997-01-28 This highly regarded work fills the need for a treatment of elementary discrete mathematics that provides a core of mathematical terminology and concepts as well as emphasizes computer applications Includes numerous elementary applications to computing and examples with solutions *Discrete Mathematics and Its Applications* Kenneth H. Rosen,2002-09-01 Discrete Mathematics and its Applications is a focused introduction to the primary themes in a discrete mathematics course as introduced through extensive applications expansive discussion and detailed exercise sets These themes include mathematical reasoning combinatorial analysis discrete structures algorithmic thinking and enhanced problem solving skills through modeling Its intent is to demonstrate the relevance and practicality of discrete mathematics to all students The Fifth Edition includes a more thorough and linear presentation of logic proof types and proof writing and mathematical reasoning This enhanced coverage will provide students with a solid understanding of the material as it relates to their immediate field of study and other relevant subjects The inclusion of applications and examples to key topics has been significantly addressed to add clarity to every subject True to the Fourth Edition the text specific web site supplements the subject matter in meaningful ways offering additional material for students and instructors Discrete math is an active subject with new discoveries made every year The continual growth and updates to the web site reflect the active nature of the topics being discussed The book is appropriate for a one or two term introductory discrete

mathematics course to be taken by students in a wide variety of majors including computer science mathematics and engineering College Algebra is the only explicit prerequisite   *ADVANCED DISCRETE MATHEMATICS* UDAY SINGH RAJPUT,2012-05-26 Written in an accessible style this text provides a complete coverage of discrete mathematics and its applications at an appropriate level of rigour The book discusses algebraic structures mathematical logic lattices Boolean algebra graph theory automata theory grammars and recurrence relations It covers the important topics such as coding theory Dijkstra s shortest path algorithm reverse polish notation Warshall s algorithm Menger s theorem Turing machine and LR k parsers which form a part of the fundamental applications of discrete mathematics in computer science In addition Pigeonhole principle ring homomorphism field and integral domain trees network flows languages and recurrence relations The text is supported with a large number of examples worked out problems and diagrams that help students understand the theoretical explanations The book is intended as a text for postgraduate students of mathematics computer science and computer applications In addition it will be extremely useful for the undergraduate students of computer science and engineering   **Discrete Mathematics** Stephen A. Wiitala,1987   *Discrete Mathematics* Jean Gallier,2011-02-01 This books 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 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 in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics *Pearls of Discrete Mathematics* Martin Erickson,2009-09-16 Methods Used to Solve Discrete Math ProblemsInteresting examples highlight the interdisciplinary nature of this areaPearls of Discrete Mathematics presents methods for solving counting problems and other types of problems that involve discrete structures Through intriguing examples problems theorems and proofs the book illustrates the relation *Basic Discrete Mathematics: Logic, Set Theory, And Probability* Richard Kohar,2016-06-15 This lively introductory text exposes the student in the humanities to the world of discrete mathematics A problem solving based approach grounded in the ideas of George P lya are at the heart of this book Students learn to handle and solve new problems on their own A straightforward clear writing style and well crafted examples with diagrams invite the students to develop into precise and critical thinkers Particular attention has been given to the material that some students find challenging such as proofs This book illustrates how to spot invalid arguments to enumerate possibilities and to construct probabilities It also presents case studies to students about the possible detrimental effects of ignoring these basic principles The book is invaluable for a discrete and finite mathematics course at the freshman undergraduate level or for self study since there are full solutions to the exercises in an appendix Written with clarity humor and relevant real world examples Basic Discrete Mathematics is a wonderful introduction to discrete mathematical reasoning Arthur Benjamin Professor of Mathematics at Harvey Mudd College and author of The Magic of Math *Discrete Mathematics* Oscar Levin,2024-12 This book aims to provide an introduction to select topics in discrete mathematics at a level appropriate for first or second year undergraduate math and computer science majors especially those who intend to teach middle and high school mathematics The book began as a set of notes for the Discrete Mathematics course at the University of Northern Colorado This course serves both as a survey of the topics in discrete math

and as the bridge course for math majors **Discrete Mathematics with Applications** Thomas Koshy,2004-01-19 This approachable text studies discrete objects and the relationsips that bind them It helps students understand and apply the power of discrete math to digital computer systems and other modern applications It provides excellent preparation for courses in linear algebra number theory and modern abstract algebra and for computer science courses in data structures algorithms programming languages compilers databases and computation Covers all recommended topics in a self contained comprehensive and understandable format for students and new professionals Emphasizes problem solving techniques pattern recognition conjecturing induction applications of varying nature proof techniques algorithm development and correctness and numeric computations Weaves numerous applications into the text Helps students learn by doing with a wealth of examples and exercises 560 examples worked out in detail More than 3 700 exercises More than 150 computer assignments More than 600 writing projects Includes chapter summaries of important vocabulary formulas and properties plus the chapter review exercises Features interesting anecdotes and biographies of 60 mathematicians and computer scientists Instructor s Manual available for adopters Student Solutions Manual available separately for purchase ISBN 0124211828 **Discrete Mathematics With Logic** Martin Milanic,Brigitte Servatius,Herman Servatius,2023-07-20 Discrete Mathematics provides key concepts and a solid rigorous foundation in mathematical reasoning Appropriate for undergraduate as well as a starting point for more advanced class the resource offers a logical progression through key topics without assuming any background in algebra or computational skills and without duplicating what they will learn in higher level courses The book is designed as an accessible introduction for students in mathematics or computer science as it explores questions that test the understanding of proof strategies such as mathematical induction For students interested to dive into this subject the text offers a rigorous introduction to mathematical thought through useful examples and exercises Provides a class tested reference used on multiple years Includes many exercises and helpful guided solutions to aid student comprehension and practice Appropriate for undergraduate courses and for students with no background in algebra or computational skills *Discrete Mathematics* Sherwood Washburn,Thomas Marlowe,Charles T. Ryan,2000 Discrete Mathematics by Washburn Marlowe and Ryan is now available for your students This new textbook excels at integrating the topics that make up a discrete mathematics course creating a cohesive presentation for your students Discrete Mathematics combines classic historical material and cutting edge computer science applications in a clear high quality format The exercise sets including basic exercises advanced exercises and computer exercises are designed to allow your students to master what they have learned before moving on to more difficult material With its highly flexible organization and unique grade of difficulty Discrete Mathematics successfully fits either the freshman sophomore course or a more advanced junior senior course and is accessible to both computer scientists and mathematicians **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 **Discrete Mathematics with Applications** William Barnier,Jean B. Chan,1989 Designed to provide a strong mathematics background for computer science engineering and mathematics students Topics in the text are drawn from logic Boolean algebra combinatorics automata and graph theory A chapter on automata theory and formal languages is included along with programming notes using Pascal language constructions to show how programming and mathematics are related Logic is introduced briefly in chapter one and then expanded upon in chapter four

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