

A WSS Mathematics Book Series

INTRODUCTION TO DISCRETE MATHEMATICS

FOR COMPUTER SCIENCE, INFORMATION
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Discrete Mathematics An Introduction To Mathematical

Edward A. Scheinerman



Discrete Mathematics An Introduction To Mathematical:

Discrete Mathematics: Introduction to Mathematical Reasoning Susanna S. Epp, 2014-07-18 Susanna Epp's DISCRETE MATHEMATICS AN INTRODUCTION TO MATHEMATICAL REASONING provides the same clear introduction to discrete mathematics and mathematical reasoning as her highly acclaimed DISCRETE MATHEMATICS WITH APPLICATIONS but in a compact form that focuses on core topics and omits certain applications usually taught in other courses. The book is appropriate for use in a discrete mathematics course that emphasizes essential topics or in a mathematics major or minor course that serves as a transition to abstract mathematical thinking. The ideas of discrete mathematics underlie and are essential to the science and technology of the computer age. This book offers a synergistic union of the major themes of discrete mathematics together with the reasoning that underlies mathematical thought. Renowned for her lucid accessible prose, Epp explains complex abstract concepts with clarity and precision, helping students develop the ability to think abstractly as they study each topic. In doing so, the book provides students with a strong foundation both for computer science and for other upper level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Discrete Mathematics Susanna S. Epp, 2011

Discrete Mathematics Oscar Levin, 2016-08-16 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. The book contains over 360 exercises including 230 with solutions and 130 more involved problems suitable for homework. There are also Investigate activities throughout the text to support active inquiry based learning. 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. Update as of July 2017, this 2nd edition has been updated, correcting numerous typos and a few mathematical errors. Pagination is almost identical to the earlier printing of the 2nd edition. For a list of changes, see the book's website: <http://discretetext.oscarlevin.com>

An Introduction to Discrete Mathematics Steven Roman, 1986

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

Introduction to Discrete Mathematics Koo-Guan Choo, Donald E. Taylor, Choo, 1994 Discrete Mathematics covers such a wide range of topics that it is difficult to give a simple definition of the subject Whereas calculus deals with continuous or even smooth objects discrete mathematics deals with things that come in chunks that can be counted We will be a lot more precise about just what sort of chunks we are dealing with in the later chapters If your mathematical background is only high school calculus you could well believe that mathematics is only about numbers functions and formulas for solving problems If this is the case the topics in this book may be quite a surprise because for mathematicians computer scientists and engineers Discrete Mathematics includes logic set theory enumeration networks automata for formal languages and many other discrete structures That is what this book is about On the other hand in 19 lectures we can only present an introduction to the subject and we must leave other important topics such as graph theory error correcting codes discrete probability theory and applications to theoretical computer science to a second or third course The topics covered are set theory logic Boolean algebra counting generating functions recurrence relations finite automata and formal languages with a lot of emphasis on counting The set theory and logic is basic material which will be useful many courses besides Discrete Mathematics Counting problems which look quite hard when stated in ordinary English can often be solved easily when translated into the language of set theory We give many examples that reduce to counting the number of functions of various types between sets or counting the number of subsets of a set

[Mathematics: A Discrete Introduction](#) Edward A. Scheinerman, 2012-03-05 MATHEMATICS A DISCRETE INTRODUCTION teaches students the fundamental concepts in discrete mathematics and proof writing skills With its clear presentation the text shows students how to present cases logically beyond this course All of the material is directly applicable to computer science and engineering but it is presented from a mathematician's perspective Students will learn that discrete mathematics is very useful especially those whose interests lie in computer science and engineering as well as those who plan to study probability statistics operations research and other areas of applied mathematics Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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 back ground 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 re taining 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 dif ficult 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

Introduction to Discrete Mathematics Victoria Ossipova,1995

Discrete Mathematics Kevin Ferland,2008-12-31 DISCRETE MATHEMATICS INTERNATIONAL EDITION combines a balance of theory and applications with mathematical rigor and an accessible writing style The author uses a range of examples to teach core concepts while corresponding exercises allow students to apply what they learn Throughout the text engaging anecdotes and topics of interest inform as well as motivate learners The text is ideal for one or two semester courses and for students who are typically mathematics mathematics education or computer science majors Part I teaches student how to write proofs Part II focuses on computation and problem solving The second half of the book may also be suitable for introductory courses in combinatorics and graph theory

An Introduction to Discrete Mathematics Frank

Ma,Steven A. Roman,1989-02-01 *Student Solutions Manual and Study Guide for Epp's Discrete Mathematics:*

Introduction to Mathematical Reasoning Susanna S. Epp,2011

Discrete Mathematics for Computer Science Jon

Pierre Fortney,2020-12-23 Discrete Mathematics for Computer Science An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an

environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook

Discrete Mathematics George Tourlakis,2024-01-03 This book is ideal for a first or second year discrete mathematics course for mathematics engineering and computer science majors The author has extensively class tested early conceptions of the book over the years and supplements mathematical arguments with informal discussions to aid readers in understanding the presented topics Safe that is paradox free informal set theory is introduced following on the heels of Russell s Paradox as well as the topics of finite countable and uncountable sets with an exposition and use of Cantor s diagonalisation technique Predicate logic for the user is introduced along with axioms and rules and extensive examples Partial orders and the minimal condition are studied in detail with the latter shown to be equivalent to the induction principle Mathematical induction is illustrated with several examples and is followed by a thorough exposition of inductive definitions of functions and sets Techniques for solving recurrence relations including generating functions the O and o notations and trees are provided Over 200 end of chapter exercises are included to further aid in the understanding and applications of discrete mathematics

Introduction to Mathematical Logic Elliott Mendelson,2015-05-21 The new edition of this classic textbook *Introduction to Mathematical Logic* Sixth Edition explores the principal topics of mathematical logic It covers propositional logic first order logic first order number theory axiomatic set theory and the theory of computability The text also discusses the major results of Godel Church Kleene Rosse

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 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 and Its Applications Kenneth H. Rosen, 1999 This text is designed for the sophomore junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math computer science and engineering Rosen has become a bestseller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor The strength of Rosen's approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage

Logic and Discrete Mathematics Willem Conradie, Valentin Goranko, Claudette Robinson, 2015-05-08 Solutions manual to accompany Logic and Discrete Mathematics A Concise Introduction This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics presenting material that has been tested and refined by the authors in university courses taught over more than a decade Written in a clear and reader friendly style each section ends with an extensive set of exercises most of them provided with complete solutions which are available in this accompanying solutions manual

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