

Brief Edition

Susanna S. Epp

Discrete Mathematics

An Introduction to Mathematical Reasoning



Discrete Mathematics Brief Edition

Gerard O'Regan



Discrete Mathematics Brief Edition:

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. [Brief Calculus for Business, Social, and Life Sciences](#) Bill Armstrong, Don Davis, 2012-12-28 Intended for a one term or two term course for undergraduate students majoring in economics, business, social, or behavioral sciences, Brief Calculus for the Business, Social, and Life Sciences presents mathematics in a clear and accessible language that students can read and understand. The clear, easy-to-read conversational writing style will have students feeling as though they are engaging in a one-on-one tutorial session. Rich in pedagogical features, this Third Edition opens each chapter and section with clearly defined learning objectives to help students focus on understanding the fundamental concepts that lie ahead. Within each chapter are flashbacks of selected examples from an earlier chapter that help to reinforce the necessary problem-solving skills, as well as introduce new topics employing familiar applications. Engaging Section Projects promote hands-on application of the newly learned problem-solving techniques and interactive Try It Yourself example problems that help students develop good study habits. Every chapter concludes with three components: a Section by Section Study Guide that reviews the theorems, definitions, and properties with the page number where these items were first introduced, as well as a review of the chapter learning objectives and additional exercises; a Chapter Practice Test for students to test their acquisition of the material; and a Chapter Project that uses real-world data to explore and extend the concepts discussed in the chapter. The clear and accessible writing style, numerous and varied engaging exercises, and proven pedagogical features make learning and understanding calculus achievable for students of a variety of disciplines. **Discrete Mathematics** Susanna S. Epp, 2011 *Discrete Mathematics with Applications, Metric Edition* Susanna Epp, 2019 DISCRETE MATHEMATICS WITH APPLICATIONS 5th Edition Metric Edition explains complex abstract concepts with clarity and precision and provides a

strong foundation for computer science and upper level mathematics courses of the computer age Author Susanna Epp presents not only the major themes of discrete mathematics but also the reasoning that underlies mathematical thought Students develop the ability to think abstractly as they study the ideas of logic and proof While learning about such concepts as logic circuits and computer addition algorithm analysis recursive thinking computability automata cryptography and combinatorics students discover that the ideas of discrete mathematics underlie and are essential to today s science and technology

A Brief Journey in Discrete Mathematics Randolph Nelson,2020-02-11 The goal of this book is to showcase the beauty of mathematics as revealed in nine topics of discrete mathematics In each chapter properties are explored through a series of straightforward questions that terminate with results that lie at the doorstep of a field of study Each step along the way is elementary and requires only algebraic manipulation This frames the wonder of mathematics and highlights the complex world that lies behind a series of simple mathematical deductions Topics addressed include combinatorics unifying properties of symmetric functions the Golden ratio as it leads to k bonacci numbers non intuitive and surprising results found in a simple coin tossing game the playful trick question aspect of modular systems exploration of basic properties of prime numbers and derivations of bewildering results that arise from approximating irrational numbers as continued fraction expansions The Appendix contains the basic tools of mathematics that are used in the text along with a numerous list of identities that are derived in the body of the book The mathematics in the book is derived from first principles On only one occasion does it rely on a result not derived within the text Since the book does not require calculus or advanced techniques it should be accessible to advanced high school students and undergraduates in math or computer science Senior mathematicians might be unfamiliar with some of the topics addressed in its pages or find interest in the book s unified approach to discrete math

A Brief History of Computing Gerard O'Regan,2021-04-28 This lively and fascinating text traces the key developments in computation from 3000 B C to the present day in an easy to follow and concise manner Topics and features ideal for self study offering many pedagogical features such as chapter opening key topics chapter introductions and summaries exercises and a glossary presents detailed information on major figures in computing such as Boole Babbage Shannon Turing Zuse and Von Neumann discusses the earliest computers developed in the United States Germany and Britain discusses the development of the IBM 360 family of computers and its importance discusses the invention of the transistor and integrated circuit discusses the birth of the software industry and the evolution of human computer interaction reviews the history of programming languages operating systems and software engineering discusses the progress of artificial intelligence discusses the invention of the microprocessor and the development of home and personal computers examines the impact on society of the introduction of the personal computer the World Wide Web and the development of mobile phone technology discusses smart phones and social media and the challenge of fake news reviews a miscellany of innovations in the computing field such as cloud computing the Internet of Things and Quantum Computing discusses legal

aspects of computing and the professional responsibilities of computer professionals [A Short Course in Discrete Mathematics](#) Edward A. Bender, S. Gill Williamson, 2005-01-01 What sort of mathematics do I need for computer science In response to this frequently asked question a pair of professors at the University of California at San Diego created this text Its sources are two of the university's most basic courses Discrete Mathematics and Mathematics for Algorithm and System Analysis Intended for use by sophomores in the first of a two quarter sequence the text assumes some familiarity with calculus Topics include Boolean functions and computer arithmetic logic number theory and cryptography sets and functions equivalence and order and induction sequences and series Multiple choice questions for review appear throughout the text Original 2005 edition Notation Index Subject Index **Schaum's Outline of Discrete Mathematics, Fourth Edition** Seymour Lipschutz, Marc Lipson, 2021-11-30 Study smarter and stay on top of your discrete mathematics course with the bestselling Schaum's Outline now with the NEW Schaum's app and website Schaum's Outline of Discrete Mathematics Fourth Edition is the go to study guide for more than 115 000 math majors and first and second year university students taking basic computer science courses With an outline format that facilitates quick and easy review Schaum's Outline of Discrete Mathematics Fourth Edition helps you understand basic concepts and get the extra practice you need to excel in these courses Coverage includes set theory relations functions and algorithms logic and propositional calculus techniques of counting advanced counting techniques recursion probability graph theory directed graphs binary trees properties of the integers languages automata machines finite state machines and Turing machines ordered sets and lattices and Boolean algebra Features NEW to this edition the new Schaum's app and website NEW to this edition 20 NEW problem solving videos online 467 solved problems and hundreds of additional practice problems Outline format to provide a concise guide to the standard college course in discrete mathematics Clear concise explanations of discrete mathematics concepts Expanded coverage of logic the rules of inference and basic types of proofs in mathematical reasoning Increased emphasis on discrete probability and aspects of probability theory and greater accessibility to counting techniques Logic chapter emphasizes the IF THEN and IF THEN ELSE sequencing that occurs in computer programming Computer arithmetic chapter covers binary and hexagon addition and multiplication Cryptology chapter includes substitution and RSA method Supports these major texts Discrete Mathematics and Its Applications Rosen and Discrete Mathematics Epp Appropriate for the following courses Introductory Discrete Mathematics and Discrete Mathematics **Discrete Mathematics and Its Applications** Kenneth H. Rosen, 1995 **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

Speaking of Writing: A Brief Rhetoric - with MLA 2021 Update Allegra Goodman, Michael Prince, 2022-12-13 Co authored by a novelist and a scholar Speaking of Writing follows four college students from diverse backgrounds as they face the challenges of reading writing and critical thinking in first year composition classes and across the disciplines Each chapter engages students in relatable often humorous scenarios that focus on key challenges Through its story based approach this brief rhetoric enacts process based pedagogy showing student writers grappling with fundamental questions How can I apply my own strategies for success to new assignments How can I maintain my own voice when asked to compose in an academic style What do college professors mean by a thesis Why is my argument weak and how can I make it stronger The book vividly dramatizes a draft and revision process that includes instructor feedback peer review and careful research

El-Hi Textbooks and Serials in Print, 1996 R R Bowker Publishing, Bowker, 1996-02 **Discrete Mathematics With Applications + Webassign for Custom Labs Discrete Mathematics, a Brief Introduction for Salisbury Cc - Single Term Printed Access Card** Susanna S. Epp, 2019

Resources in Education, 1990 **Discrete Mathematics Through Applications** Nancy Crisler, Gary Froelich, 2005-12-23 Listen here for author Nancy Crisler's introduction to Discrete Mathematics Through Applications Written specifically for high school courses Discrete Mathematics Through Applications is designed to help you put the established NCTM Standards for Discrete Math to work in your classroom in a way that promotes active learning critical thinking and fully engaged student participation With this text students will see the connections among mathematical topics and real life events and situations while sharpening their problem solving mathematical reasoning and communication skills The new edition adds new topics and significantly revised exercise sets and enhanced supplements [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

A Beginner's Guide to Discrete Mathematics W.D. Wallis, 2011-10-07 Wallis's book on discrete mathematics is a resource for an introductory course in a subject fundamental to both mathematics and computer science a course that is expected not only to cover certain specific topics but also to introduce students to important modes of thought specific to each discipline Lower division undergraduates through graduate students Choice reviews Review of the First Edition Very appropriately entitled as a beginner's guide this textbook presents itself as the first exposure to discrete mathematics and rigorous proof for the mathematics or computer science student Zentralblatt Math Review of the First Edition This second edition of *A Beginner's Guide to Discrete Mathematics* presents a detailed guide to discrete mathematics and its relationship to other mathematical subjects including set theory probability cryptography graph theory and number theory This textbook has a distinctly applied orientation and explores a variety of applications Key Features of the second edition Includes a new chapter on the theory of voting as well as numerous new examples and exercises throughout the book Introduces functions vectors matrices number systems scientific notations and the representation of numbers in computers Provides examples which then lead into easy practice problems throughout the text and full exercise at the end of each chapter Full solutions for practice problems are provided at the end of the book This text is intended for undergraduates in mathematics and computer science however featured special topics and applications may also interest graduate students

Schaum's Outline of Discrete Mathematics, 3rd Ed. Seymour Lipschutz, Marc Lipson, 2007-06-01 This is a topic that becomes increasingly important every year as the digital age extends and grows more encompassing in every facet of life Discrete mathematics the study of finite systems has become more important as the computer age has advanced as computer arithmetic logic and combinatorics have become standard topics in the discipline For mathematics majors it is one of the core required courses This new edition will bring the outline into synch with Rosen McGraw Hill's bestselling textbook in the field as well as up to speed in the current curriculum New material will include expanded coverage of logic the rules of inference and basic types of proofs in mathematical reasoning This will give students a better understanding of proofs of facts about sets and functions There will be increased emphasis on discrete probability and aspects of probability theory and greater accessibility to counting techniques This new edition features Counting chapter will have new material on generalized combinations New chapter on computer arithmetic with binary and hexagon addition and multiplication New Cryptology chapter including substitution and RSA method This outline is the perfect supplement to any course in discrete math and can also serve as a stand alone textbook

The American Mathematical Monthly, 1911 Includes articles as well as notes and other features about mathematics and the profession

Forthcoming Books Rose Arny, 2001-06

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