

**Brief Edition**

**Susanna S. Epp**

# **Discrete Mathematics**

**An Introduction to Mathematical Reasoning**



# Discrete Mathematics Introduction To Mathematical Reasoning

**Susanna S. Epp**



## **Discrete Mathematics Introduction To Mathematical Reasoning:**

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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

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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, Instructor's Solutions Manual* Douglas E. Ensley, J. Winston Crawley, 2006-01-24 Did you know that games and puzzles have given birth to many of today's deepest mathematical subjects Now with Douglas Ensley and Winston Crawley's Introduction to Discrete Mathematics you can explore mathematical writing abstract structures counting discrete probability and graph theory through games puzzles patterns magic tricks and real world problems You will discover how new mathematical topics can be applied to everyday situations learn how to work with proofs and develop your problem solving skills along the way Online applications help improve your mathematical reasoning Highly intriguing interactive Flash based applications illustrate key mathematical concepts and help you develop your ability to reason mathematically solve problems and work with proofs Explore More icons in the text direct you to online activities at [www.wiley.com/college/ensley](http://www.wiley.com/college/ensley) Improve your grade with the Student Solutions Manual A supplementary Student Solutions Manual contains more detailed solutions to selected exercises in the text **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 *Basic Discrete Mathematics* Richard Kohar, 2016 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 Pólya 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: Mathematical Reasoning and Proof with Puzzles, Patterns, and Games, 1e Student Solutions Manual** Douglas E. Ensley, J. Winston Crawley, 2009-01-20 Did you know that games and puzzles have given birth to many of today's deepest mathematical subjects Now with Douglas Ensley and Winston Crawley's Introduction to Discrete Mathematics you can explore mathematical writing abstract structures counting discrete probability and graph theory through games puzzles patterns magic tricks and real world problems You will discover how new mathematical topics can be applied to everyday situations learn how to work with proofs and develop your problem solving skills along the way Online applications help improve your mathematical reasoning Highly intriguing interactive Flash based applications illustrate key mathematical concepts and help you develop your ability to reason mathematically solve problems and work with proofs Explore More icons in the text direct you to online activities at [www.wiley.com/college/ensley](http://www.wiley.com/college/ensley) Improve your grade with the Student Solutions Manual A supplementary Student Solutions Manual contains more detailed solutions to selected exercises in the text **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 Through Applications** Nancy Crisler, Patience Fisher, Gary Froelich, 1999-07-30 Written specifically for the high school discrete math course Discrete Mathematics Through Applications lets the recently revised NCTM Standards be its guide The book focuses on the connections among mathematical topics and real life events and situations emphasizing problem solving mathematical reasoning and communication Catalog United States Naval Academy, 1990 **How to Prove It** Daniel J. Velleman, 2019-07-18 Helps students transition from problem solving to proving theorems with a new chapter on number theory and over 150 new exercises *Resources for Preparing Middle School Mathematics Teachers* Cheryl Beaver, Laurie J. Burton, Maria Gueorguieva Gargova Fung, Klay Kruczek, 2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover **Catalogue** United States Naval Academy, 1990 Introduction to Abstract Mathematics John F. Lucas, 1990 This is a book about mathematics and mathematical thinking It is intended for the serious learner who is interested in studying some

deductive strategies in the context of a variety of elementary mathematical situations No background beyond single variable calculus is presumed Discrete Mathematics with Applications Susanna S. Epp, 2018-12-17 Known for its accessible precise approach Epp's DISCRETE MATHEMATICS WITH APPLICATIONS 5th Edition introduces discrete mathematics with clarity and precision Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought Students learn to think abstractly as they study the ideas of logic and proof While learning about logic circuits and computer addition algorithm analysis recursive thinking computability automata cryptography and combinatorics students discover that ideas of discrete mathematics underlie and are essential to today's science and technology The author's emphasis on reasoning provides a foundation for computer science and 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

**Student Solutions Manual and Study Guide, Discrete Mathematics with Applications** Susanna S. Epp, 2011-04 A solutions manual designed to accompany the fourth edition of the text Discrete mathematics with applications by Susanna S Epp It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself Additional review material is also provided

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