

SUSANNA EPP DISCRETE MATH

SUSANNA EPP DISCRETE MATH IS A WIDELY RECOGNIZED TEXTBOOK AND RESOURCE IN THE FIELD OF DISCRETE MATHEMATICS, AUTHORED BY SUSANNA S. EPP. KNOWN FOR ITS CLARITY, RIGOR, AND COMPREHENSIVE COVERAGE, THIS BOOK SERVES AS A FUNDAMENTAL GUIDE FOR STUDENTS AND EDUCATORS ALIKE. IT EMPHASIZES LOGICAL REASONING, PROOF TECHNIQUES, AND THE FOUNDATIONAL CONCEPTS THAT UNDERPIN COMPUTER SCIENCE AND MATHEMATICS. THE TEXT IS STRUCTURED TO FACILITATE DEEP UNDERSTANDING OF DISCRETE STRUCTURES, INCLUDING SETS, RELATIONS, FUNCTIONS, ALGORITHMS, AND COMBINATORICS. THIS ARTICLE EXPLORES THE KEY FEATURES OF SUSANNA EPP'S DISCRETE MATH, ITS PEDAGOGICAL APPROACH, AND ITS RELEVANCE IN ACADEMIC CURRICULA. ADDITIONALLY, IT HIGHLIGHTS WHY THIS RESOURCE REMAINS A STAPLE FOR MASTERING DISCRETE MATHEMATICS. THE FOLLOWING SECTIONS PROVIDE AN IN-DEPTH OVERVIEW AND ANALYSIS OF THE BOOK'S CONTENT AND INSTRUCTIONAL METHODOLOGY.

- OVERVIEW OF SUSANNA EPP'S DISCRETE MATH
- CORE TOPICS COVERED IN THE TEXTBOOK
- PEDAGOGICAL APPROACH AND TEACHING STYLE
- IMPORTANCE OF LOGICAL REASONING AND PROOFS
- APPLICATIONS AND RELEVANCE IN COMPUTER SCIENCE
- SUPPLEMENTARY RESOURCES AND STUDY TIPS

OVERVIEW OF SUSANNA EPP'S DISCRETE MATH

SUSANNA EPP'S DISCRETE MATH TEXTBOOK IS DESIGNED TO INTRODUCE STUDENTS TO THE FUNDAMENTAL PRINCIPLES OF DISCRETE MATHEMATICS WITH AN EMPHASIS ON PRECISION AND CLARITY. THE BOOK IS HIGHLY REGARDED FOR ITS SYSTEMATIC APPROACH TO EXPLAINING ABSTRACT MATHEMATICAL CONCEPTS, MAKING IT ACCESSIBLE TO LEARNERS WITH VARYING LEVELS OF PRIOR KNOWLEDGE. IT INTEGRATES THEORY WITH PRACTICE, PROVIDING NUMEROUS EXAMPLES AND EXERCISES THAT REINFORCE UNDERSTANDING. THE TEXT IS SUITABLE FOR UNDERGRADUATE COURSES IN MATHEMATICS, COMPUTER SCIENCE, AND RELATED FIELDS, WHERE DISCRETE MATH FORMS A CRITICAL FOUNDATION.

AUTHOR BACKGROUND AND CONTRIBUTIONS

SUSANNA S. EPP IS A PROFESSOR OF MATHEMATICS WITH EXTENSIVE EXPERIENCE TEACHING DISCRETE MATHEMATICS AND LOGIC. HER EXPERTISE IS REFLECTED IN THE CAREFUL ORGANIZATION AND PRESENTATION OF THE MATERIAL. THROUGH MULTIPLE EDITIONS, HER TEXTBOOK HAS EVOLVED TO INCORPORATE CONTEMPORARY DEVELOPMENTS AND PEDAGOGICAL IMPROVEMENTS, ENSURING ITS CONTINUED RELEVANCE AND EFFECTIVENESS AS A LEARNING TOOL.

EDITION AND STRUCTURE

THE TEXTBOOK IS TYPICALLY ORGANIZED INTO CHAPTERS THAT PROGRESS FROM BASIC CONCEPTS TO MORE ADVANCED TOPICS. EACH CHAPTER BEGINS WITH CLEAR OBJECTIVES AND INCLUDES A VARIETY OF PROBLEM SETS THAT ENCOURAGE ACTIVE LEARNING. THE STRUCTURED PROGRESSION ALLOWS STUDENTS TO BUILD CONFIDENCE AND MASTERY AS THEY ADVANCE THROUGH THE MATERIAL.

CORE TOPICS COVERED IN THE TEXTBOOK

SUSANNA EPP'S DISCRETE MATH COVERS A BROAD SPECTRUM OF FUNDAMENTAL TOPICS ESSENTIAL TO THE DISCIPLINE. THESE TOPICS PROVIDE THE BUILDING BLOCKS FOR FURTHER STUDY IN MATHEMATICS AND COMPUTER SCIENCE.

LOGIC AND PROOF TECHNIQUES

A SIGNIFICANT PORTION OF THE BOOK IS DEVOTED TO FORMAL LOGIC, INCLUDING PROPOSITIONAL AND PREDICATE LOGIC, TRUTH TABLES, AND EQUIVALENCES. THE TEXT EMPHASIZES DIFFERENT METHODS OF PROOF SUCH AS DIRECT PROOF, PROOF BY CONTRADICTION, AND MATHEMATICAL INDUCTION, WHICH ARE CRUCIAL FOR DEVELOPING RIGOROUS MATHEMATICAL ARGUMENTS.

SETS, FUNCTIONS, AND RELATIONS

THE TEXTBOOK EXPLORES SET THEORY CONCEPTS, OPERATIONS ON SETS, AND THE NATURE OF FUNCTIONS AND RELATIONS. THESE TOPICS FORM THE CORNERSTONE OF UNDERSTANDING MATHEMATICAL STRUCTURES AND ARE PRESENTED WITH DETAILED EXPLANATIONS AND EXAMPLES.

ALGORITHMS AND COMPLEXITY

BASIC ALGORITHMIC CONCEPTS AND COMPLEXITY ANALYSIS ARE INTRODUCED TO PROVIDE INSIGHT INTO PROBLEM-SOLVING AND COMPUTATIONAL EFFICIENCY. THIS SECTION CONNECTS DISCRETE MATH TO PRACTICAL APPLICATIONS IN COMPUTER SCIENCE.

COMBINATORICS AND PROBABILITY

COUNTING PRINCIPLES, PERMUTATIONS, COMBINATIONS, AND INTRODUCTORY PROBABILITY THEORY ARE ALSO COVERED. THESE TOPICS ARE VITAL FOR UNDERSTANDING RANDOM PROCESSES AND DECISION-MAKING IN UNCERTAIN ENVIRONMENTS.

PEDAGOGICAL APPROACH AND TEACHING STYLE

SUSANNA EPP'S DISCRETE MATH IS DISTINGUISHED BY ITS PEDAGOGICAL CLARITY AND RIGOROUS APPROACH TO TEACHING ABSTRACT CONCEPTS. THE TEXT IS DESIGNED TO FOSTER CRITICAL THINKING AND PRECISE COMMUNICATION OF MATHEMATICAL IDEAS.

EMPHASIS ON UNDERSTANDING AND APPLICATION

THE BOOK PRIORITIZES CONCEPTUAL UNDERSTANDING OVER ROTE MEMORIZATION, ENCOURAGING STUDENTS TO EXPLORE WHY MATHEMATICAL STATEMENTS HOLD TRUE. THIS APPROACH HELPS LEARNERS DEVELOP THE ABILITY TO APPLY CONCEPTS IN NOVEL SITUATIONS.

USE OF EXAMPLES AND EXERCISES

EACH CHAPTER CONTAINS NUMEROUS WORKED EXAMPLES THAT ILLUSTRATE KEY POINTS, FOLLOWED BY EXERCISES OF VARYING DIFFICULTY. THESE EXERCISES RANGE FROM STRAIGHTFORWARD PRACTICE PROBLEMS TO CHALLENGING PROOFS, SUPPORTING INCREMENTAL LEARNING AND MASTERY.

CLEAR AND ACCESSIBLE LANGUAGE

THE WRITING STYLE IS CLEAR AND CONCISE, AVOIDING UNNECESSARY JARGON WHILE MAINTAINING MATHEMATICAL PRECISION. THIS MAKES THE MATERIAL APPROACHABLE FOR STUDENTS ENCOUNTERING DISCRETE MATH FOR THE FIRST TIME.

IMPORTANCE OF LOGICAL REASONING AND PROOFS

LOGICAL REASONING AND PROOF TECHNIQUES ARE CENTRAL THEMES THROUGHOUT SUSANNA EPP'S DISCRETE MATH, REFLECTING THEIR FOUNDATIONAL ROLE IN MATHEMATICS AND COMPUTER SCIENCE.

BUILDING MATHEMATICAL MATURITY

THE TEXTBOOK GUIDES STUDENTS THROUGH THE DEVELOPMENT OF MATHEMATICAL MATURITY BY TEACHING HOW TO CONSTRUCT AND EVALUATE LOGICAL ARGUMENTS. THIS SKILL IS INDISPENSABLE FOR ADVANCED STUDY AND RESEARCH.

TYPES OF PROOFS COVERED

STUDENTS LEARN MULTIPLE PROOF STRATEGIES, INCLUDING:

- DIRECT PROOF
- PROOF BY CONTRADICTION
- PROOF BY CONTRAPOSITIVE
- MATHEMATICAL INDUCTION
- PROOF BY CASES

MASTERY OF THESE METHODS ENABLES STUDENTS TO APPROACH COMPLEX PROBLEMS WITH CONFIDENCE AND RIGOR.

APPLICATIONS AND RELEVANCE IN COMPUTER SCIENCE

DISCRETE MATHEMATICS AS PRESENTED BY SUSANNA EPP IS INTEGRAL TO VARIOUS AREAS OF COMPUTER SCIENCE, HIGHLIGHTING THE PRACTICAL IMPORTANCE OF THE SUBJECT.

FOUNDATIONS FOR ALGORITHMS AND DATA STRUCTURES

THE CONCEPTS OF SETS, RELATIONS, AND FUNCTIONS UNDERPIN ALGORITHM DESIGN AND DATA STRUCTURE ORGANIZATION. UNDERSTANDING THESE TOPICS ENHANCES THE ABILITY TO ANALYZE AND OPTIMIZE COMPUTATIONAL PROCESSES.

LOGIC IN PROGRAMMING AND SOFTWARE ENGINEERING

LOGICAL REASONING SKILLS CULTIVATED THROUGH THIS TEXTBOOK ARE ESSENTIAL FOR SOFTWARE DEVELOPMENT, DEBUGGING, AND VERIFICATION. FORMAL LOGIC FORMS THE BASIS OF PROGRAMMING LANGUAGES AND AUTOMATED REASONING TOOLS.

COMBINATORICS IN PROBLEM SOLVING

COMBINATORIAL TECHNIQUES SUPPORT ALGORITHMIC PROBLEM SOLVING, CRYPTOGRAPHY, AND NETWORK THEORY. THE TEXTBOOK'S COVERAGE OF THESE AREAS PREPARES STUDENTS FOR SPECIALIZED FIELDS WITHIN COMPUTER SCIENCE.

SUPPLEMENTARY RESOURCES AND STUDY TIPS

TO MAXIMIZE THE BENEFITS OF STUDYING SUSANNA EPP'S DISCRETE MATH, STUDENTS CAN UTILIZE VARIOUS SUPPLEMENTARY MATERIALS AND ADOPT EFFECTIVE STUDY STRATEGIES.

ADDITIONAL PRACTICE PROBLEMS

ENGAGING WITH EXTRA PROBLEM SETS BEYOND THE TEXTBOOK EXERCISES HELPS REINFORCE UNDERSTANDING AND EXPOSES STUDENTS TO A WIDER RANGE OF QUESTION TYPES.

STUDY GROUPS AND DISCUSSIONS

COLLABORATING WITH PEERS TO DISCUSS CONCEPTS AND SOLVE PROBLEMS PROMOTES DEEPER COMPREHENSION AND EXPOSES LEARNERS TO ALTERNATIVE APPROACHES.

UTILIZING ONLINE RESOURCES

ACCESSING LECTURE NOTES, VIDEO TUTORIALS, AND FORUMS CAN PROVIDE VARIED EXPLANATIONS AND AID IN CLARIFYING DIFFICULT TOPICS.

CONSISTENT REVIEW AND PRACTICE

REGULAR REVIEW OF KEY CONCEPTS AND PERSISTENT PRACTICE IN CONSTRUCTING PROOFS ARE CRITICAL FOR LONG-TERM RETENTION AND SKILL DEVELOPMENT.

- FOCUS ON UNDERSTANDING DEFINITIONS AND THEOREMS
- PRACTICE WRITING CLEAR AND COMPLETE PROOFS
- SOLVE A VARIETY OF PROBLEMS TO BUILD VERSATILITY
- SEEK FEEDBACK FROM INSTRUCTORS OR PEERS

FREQUENTLY ASKED QUESTIONS

WHAT TOPICS ARE COVERED IN SUSANNA EPP'S DISCRETE MATHEMATICS TEXTBOOK?

SUSANNA EPP'S DISCRETE MATHEMATICS TEXTBOOK COVERS TOPICS SUCH AS LOGIC, PROOF TECHNIQUES, SET THEORY, FUNCTIONS, RELATIONS, COMBINATORICS, GRAPH THEORY, AND ALGORITHMS, PROVIDING A COMPREHENSIVE INTRODUCTION TO DISCRETE MATH CONCEPTS.

WHY IS SUSANNA EPP'S DISCRETE MATHEMATICS BOOK RECOMMENDED FOR LEARNING PROOF WRITING?

SUSANNA EPP'S BOOK IS HIGHLY RECOMMENDED BECAUSE IT EMPHASIZES THE DEVELOPMENT OF LOGICAL REASONING AND PROOF-WRITING SKILLS, OFFERING CLEAR EXPLANATIONS AND NUMEROUS EXAMPLES THAT HELP STUDENTS UNDERSTAND HOW TO CONSTRUCT AND ANALYZE MATHEMATICAL PROOFS EFFECTIVELY.

HOW DOES SUSANNA EPP APPROACH TEACHING LOGIC IN HER DISCRETE MATH BOOK?

SUSANNA EPP APPROACHES TEACHING LOGIC BY STARTING WITH FUNDAMENTAL CONCEPTS SUCH AS PROPOSITIONAL AND PREDICATE LOGIC, TRUTH TABLES, AND LOGICAL EQUIVALENCES, GRADUALLY BUILDING UP TO MORE COMPLEX IDEAS LIKE QUANTIFIERS AND PROOF STRATEGIES, MAKING THE MATERIAL ACCESSIBLE FOR BEGINNERS.

ARE THERE SUPPLEMENTARY RESOURCES AVAILABLE FOR SUSANNA EPP'S DISCRETE MATHEMATICS TEXTBOOK?

YES, THERE ARE SUPPLEMENTARY RESOURCES SUCH AS SOLUTION MANUALS, ONLINE LECTURE NOTES, PROBLEM SETS, AND VIDEO TUTORIALS CREATED BY EDUCATORS AND STUDENTS THAT COMPLEMENT SUSANNA EPP'S TEXTBOOK AND AID IN MASTERING DISCRETE MATHEMATICS CONCEPTS.

WHAT MAKES SUSANNA EPP'S DISCRETE MATHEMATICS TEXTBOOK SUITABLE FOR COMPUTER SCIENCE STUDENTS?

SUSANNA EPP'S TEXTBOOK IS SUITABLE FOR COMPUTER SCIENCE STUDENTS BECAUSE IT FOCUSES ON FUNDAMENTAL DISCRETE MATH TOPICS ESSENTIAL FOR COMPUTER SCIENCE, SUCH AS LOGIC, ALGORITHMS, AND COMBINATORICS, AND TEACHES RIGOROUS PROOF TECHNIQUES THAT ARE CRITICAL FOR ALGORITHM ANALYSIS AND SOFTWARE CORRECTNESS.

ADDITIONAL RESOURCES

1. *DISCRETE MATHEMATICS WITH APPLICATIONS* BY SUSANNA S. EPP

THIS IS THE PRIMARY TEXTBOOK AUTHORED BY SUSANNA EPP, KNOWN FOR ITS CLEAR EXPLANATIONS AND EMPHASIS ON REASONING AND PROOF TECHNIQUES. IT COVERS FUNDAMENTAL TOPICS SUCH AS LOGIC, SET THEORY, COMBINATORICS, GRAPH THEORY, AND NUMBER THEORY. THE BOOK IS WIDELY USED IN UNDERGRADUATE DISCRETE MATH COURSES AND IS PRAISED FOR ITS ACCESSIBLE WRITING STYLE AND NUMEROUS EXAMPLES.

2. *HOW TO PROVE IT: A STRUCTURED APPROACH* BY DANIEL J. VELLEMAN

THIS BOOK COMPLEMENTS SUSANNA EPP'S APPROACH BY FOCUSING INTENSIVELY ON THE DEVELOPMENT OF PROOF SKILLS. IT GUIDES READERS THROUGH LOGIC, QUANTIFIERS, AND PROOF STRATEGIES WITH CLEAR, STRUCTURED EXPLANATIONS. IDEAL FOR STUDENTS WHO WANT TO STRENGTHEN THEIR UNDERSTANDING OF MATHEMATICAL REASONING ALONGSIDE DISCRETE MATH CONTENT.

3. *DISCRETE MATHEMATICS AND ITS APPLICATIONS* BY KENNETH H. ROSEN

A COMPREHENSIVE TEXTBOOK THAT COVERS A BROAD RANGE OF DISCRETE MATHEMATICS TOPICS, THIS BOOK IS OFTEN USED ALONGSIDE OR AS AN ALTERNATIVE TO EPP'S WORK. IT INCLUDES EXTENSIVE EXAMPLES, EXERCISES, AND APPLICATIONS, MAKING IT SUITABLE FOR COMPUTER SCIENCE AND MATHEMATICS STUDENTS ALIKE. THE TEXT BALANCES THEORY WITH PRACTICAL PROBLEM-SOLVING TECHNIQUES.

4. *MATHEMATICAL REASONING: WRITING AND PROOF* BY TED SUNDSTROM

THIS BOOK FOCUSES ON DEVELOPING MATHEMATICAL WRITING AND PROOF SKILLS, WHICH ARE CRUCIAL IN DISCRETE MATHEMATICS. IT PROVIDES NUMEROUS EXERCISES AND EXAMPLES THAT ENCOURAGE STUDENTS TO PRACTICE CONSTRUCTING AND UNDERSTANDING PROOFS. IT SERVES AS A USEFUL SUPPLEMENT FOR READERS OF SUSANNA EPP'S DISCRETE MATH TEXTS.

5. *DISCRETE MATHEMATICS: MATHEMATICAL REASONING AND PROOF WITH PUZZLES, PATTERNS, AND GAMES* BY DOUGLAS E. ENSLEY AND J. WINSTON CRAWLEY

THIS ENGAGING TEXT INTEGRATES PUZZLES AND GAMES TO MAKE DISCRETE MATHEMATICS MORE APPROACHABLE AND ENJOYABLE.

IT EMPHASIZES REASONING AND PROOF TECHNIQUES, ALIGNING WELL WITH THE PEDAGOGICAL STYLE OF SUSANNA EPP. THE INTERACTIVE APPROACH HELPS STUDENTS GRASP ABSTRACT CONCEPTS THROUGH PRACTICAL APPLICATIONS.

6. *ESSENTIAL DISCRETE MATHEMATICS FOR COMPUTER SCIENCE* BY HARRY LEWIS AND CHRISTINE PAPADIMITRIOU

DESIGNED FOR COMPUTER SCIENCE STUDENTS, THIS BOOK COVERS DISCRETE MATH TOPICS WITH A FOCUS ON APPLICATIONS IN COMPUTING. IT COMPLEMENTS THE FOUNDATIONAL THEORIES FOUND IN EPP'S BOOK BY ADDING COMPUTATIONAL PERSPECTIVES AND EXAMPLES. THE TEXT IS CONCISE YET THOROUGH, MAKING IT A VALUABLE RESOURCE FOR DISCRETE MATHEMATICS STUDY.

7. *DISCRETE MATHEMATICS: AN OPEN INTRODUCTION* BY OSCAR LEVIN

THIS OPEN-ACCESS TEXTBOOK OFFERS A CLEAR AND STRAIGHTFORWARD INTRODUCTION TO DISCRETE MATHEMATICS, EMPHASIZING PROOFS AND REASONING SIMILAR TO SUSANNA EPP'S STYLE. IT IS FREELY AVAILABLE ONLINE, MAKING IT ACCESSIBLE FOR SELF-STUDY. THE BOOK INCLUDES A VARIETY OF EXERCISES AND EXAMPLES THAT ENCOURAGE STUDENT ENGAGEMENT.

8. *A TRANSITION TO ADVANCED MATHEMATICS* BY DOUGLAS SMITH, MAURICE EGGEN, AND RICHARD ST. ANDRE

FOCUSING ON THE TRANSITION FROM COMPUTATIONAL TO THEORETICAL MATHEMATICS, THIS BOOK BUILDS PROOF-WRITING SKILLS ESSENTIAL FOR DISCRETE MATH COURSES. IT PROVIDES DETAILED EXPLANATIONS OF LOGIC AND PROOF TECHNIQUES, COMPLEMENTING THE MATERIAL FOUND IN EPP'S TEXTBOOK. IDEAL FOR STUDENTS PREPARING FOR UPPER-LEVEL MATHEMATICS.

9. *LOGIC AND PROOFS: AN INTRODUCTION* BY MICHAEL HUTH AND MARK RYAN

THIS TEXT DELVES INTO FORMAL LOGIC AND PROOF SYSTEMS, FOUNDATIONAL ELEMENTS OF DISCRETE MATHEMATICS. IT OFFERS A RIGOROUS APPROACH TO UNDERSTANDING LOGICAL REASONING, WHICH SUPPORTS THE CONTENT COVERED IN SUSANNA EPP'S BOOK. THE BOOK IS PARTICULARLY USEFUL FOR STUDENTS INTERESTED IN THE THEORETICAL UNDERPINNINGS OF COMPUTER SCIENCE AND MATHEMATICS.

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susanna epp discrete math: Discrete Mathematics With Applications Susanna S. Epp, 2011

susanna epp discrete math: *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.

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Mathematics: Introduction to Mathematical Reasoning Susanna S. Epp, 2011

susanna epp discrete math: Student Solutions Manual with Study Guide for Epp's Discrete Mathematics with Applications Susanna S. Epp, 2019-07-10 The Student Solutions Manual contains fully worked-out solutions to all of the exercises not completely answered in Appendix B, and is divisible by 3. The Study Guide also includes alternate explanations for some of the concepts and review questions for each chapter enabling students to gain additional practice and succeed in the course.

susanna epp discrete math: Resources for Teaching Discrete Mathematics Brian Hopkins, 2009 Hopkins collects the work of 35 instructors who share their innovations and insights about teaching discrete mathematics at the high school and college level. The book's 9 classroom-tested projects, including building a geodesic dome, come with student handouts, solutions, and notes for the instructor. The 11 history modules presented draw on original sources, such as Pascal's Treatise on the Arithmetical Triangle, allowing students to explore topics in their original contexts. Three articles address extensions of standard discrete mathematics content. Two other articles explore pedagogy specifically related to discrete mathematics courses: adapting a group discovery method to larger classes, and using logic in encouraging students to construct proofs.

susanna epp discrete math: DISCRETE MATHEMATICS WITH APPLICATIONS. S. EPP, 2022

susanna epp discrete math: Discrete Mathematics in the Schools Joseph G. Rosenstein, This book provides teachers of all levels with a great deal of valuable material to help them introduce discrete mathematics into their classrooms.

susanna epp discrete math: 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.

susanna epp discrete math: Custom Discrete Mathematics with Applications Susanna S. Epp, 2014-12-10

susanna epp discrete math: Discrete Algorithmic Mathematics, Third Edition Stephen B. Maurer, Anthony Ralston, 2005-01-21 Thoroughly revised for a one-semester course, this well-known and highly regarded book is an outstanding text for undergraduate discrete mathematics. It has been updated with new or extended discussions of order notation, generating functions, chaos, aspects of statistics, and computational biology. Written in a lively, clear style that talks to the reader, the book is unique for its emphasis on algorithmics and the inductive and recursive paradigms as central mathematical themes. It includes a broad variety of applications, not just to mathematics and computer science, but to natural and social science as well. A manual of selected solutions is available for sale to students; see sidebar. A complete solution manual is available free to instructors who have adopted the book as a required text.

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2004 Susanna Epp's *DISCRETE MATHEMATICS, THIRD EDITION* provides a clear introduction to discrete mathematics. Renowned for her lucid, accessible prose, Epp explains complex, abstract concepts with clarity and precision. This book 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 the science and technology of the computer age. Overall, Epp's emphasis on reasoning provides students with a strong foundation for computer science and upper-level mathematics courses.

susanna epp discrete math: Solomon Golomb's Course on Undergraduate

Combinatorics Solomon W. Golomb, Andy Liu, 2021-09-13 This textbook offers an accessible introduction to combinatorics, infused with Solomon Golomb's insights and illustrative examples. Core concepts in combinatorics are presented with an engaging narrative that suits undergraduate study at any level. Featuring early coverage of the Principle of Inclusion-Exclusion and a unified treatment of permutations later on, the structure emphasizes the cohesive development of ideas. Combined with the conversational style, this approach is especially well suited to independent study. Falling naturally into three parts, the book begins with a flexible Chapter Zero that can be used to cover essential background topics, or as a standalone problem-solving course. The following three chapters cover core topics in combinatorics, such as combinations, generating functions, and permutations. The final three chapters present additional topics, such as Fibonacci numbers, finite groups, and combinatorial structures. Numerous illuminating examples are included throughout, along with exercises of all levels. Three appendices include additional exercises, examples, and solutions to a selection of problems. Solomon Golomb's Course on Undergraduate Combinatorics is ideal for introducing mathematics students to combinatorics at any stage in their program. There are no formal prerequisites, but readers will benefit from mathematical curiosity and a willingness to engage in the book's many entertaining challenges.

susanna epp discrete math: Write Your Own Proofs Amy Babich, Laura Person, 2019-08-14

Written by a pair of math teachers and based on their classroom notes and experiences, this introductory treatment of theory, proof techniques, and related concepts is designed for undergraduate courses. No knowledge of calculus is assumed, making it a useful text for students at many levels. The focus is on teaching students to prove theorems and write mathematical proofs so that others can read them. Since proving theorems takes lots of practice, this text is designed to provide plenty of exercises. The authors break the theorems into pieces and walk readers through examples, encouraging them to use mathematical notation and write proofs themselves. Topics include propositional logic, set notation, basic set theory proofs, relations, functions, induction, countability, and some combinatorics, including a small amount of probability. The text is ideal for courses in discrete mathematics or logic and set theory, and its accessibility makes the book equally suitable for classes in mathematics for liberal arts students or courses geared toward proof writing in mathematics.

susanna epp discrete math: Algorithm Handbook Mark Thompson, 2018-07-16 An algorithm (pronounced AL-go-rith-um) is a procedure or formula for solving a problem, based on conducting a sequence of specified actions. A computer program can be viewed as an elaborate algorithm. In mathematics and computer science, an algorithm usually means a small procedure that solves a recurrent problem.

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susanna epp discrete math: Discrete Algorithmic Mathematics, Second Edition Stephen B. Maurer, Anthony Ralston, 1998 What is discrete algorithmic mathematics. Mathematical

preliminaries. Algorithms. Mathematical induction. Graphs and trees. Fundamental counting methods. Difference equations. Probability. An introduction to mathematical logic. Algorithmic linear algebra. Infinite processes in discrete mathematics. Sorting things out with sorting.

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