

ESSENTIALS of DISCRETE MATHEMATICS

— Third Edition —



DAVID J. HUNTER

Essentials Of Discrete Mathematics Edition

Raffaella Di Napoli



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Essentials of Discrete Mathematics, 2nd Edition Hunter, 2010 Essentials of Discrete Mathematics Second Edition is the ideal text for a one term discrete mathematics course to serve computer science majors as well as students from a wide range of other disciplines It introduces students to the mathematical way of thinking and also to many important modern applications The material is organized around five types of thinking logical relational recursive quantitative and analytical This presentation results in a coherent outline that steadily builds upon mathematical sophistication Graphs are introduced early and referred to throughout the text providing a richer context for examples and applications Students will encounter algorithms near the end of the text after they have acquired the skills and experience needed to analyze them The final chapter contains in depth case studies from a variety of fields including biology sociology linguistics economics and music Clear and concise Essentials of Discrete Mathematics presents a unified and complete picture of discrete mathematics that instructors can cover in a single semester Essential Discrete Mathematics for Computer Science Harry Lewis, Rachel Zax, 2019-03-19 Discrete mathematics is the basis of much of computer science from algorithms and automata theory to combinatorics and graph theory Essential Discrete Mathematics for Computer Science aims to teach mathematical reasoning as well as concepts and skills by stressing the art of proof It is fully illustrated in color and each chapter includes a concise summary as well as a set of exercises **Essentials of Discrete Mathematics** Hunter, 2010-01-01 Mathematical Foundations of Computer Science Ashwin Lall, 2024-11-05 Mathematical Foundations of Computer Science introduces

students to the discrete mathematics needed later in their Computer Science coursework with theory of computation topics interleaved throughout. Students learn about mathematical concepts just in time to apply them to theory of computation ideas. For instance, sets motivate the study of finite automata, direct proof is practised using closure properties, induction is used to prove the language of an automaton, and contradiction is used to apply the pumping lemma. The main content of the book starts with primitive data types such as sets and strings and ends with showing the undecidability of the halting problem. There are also appendix chapters on combinatorics, probability, elementary number theory, asymptotic notation, graphs, loop invariants, and recurrences. The content is laid out concisely with a heavy reliance on worked examples of which there are over 250 in the book. Each chapter has exercises totalling 550. This class-tested textbook is targeted to intermediate Computer Science majors and is primarily intended for a discrete math proofs course in a Computer Science major. It is also suitable for introductory theory of computation courses. The authors hope this book breeds curiosity into the subject and is designed to satisfy this to some extent by reading this book. The book will prepare readers for deeper study of game theory applications in many fields of study.

Fundamentals of Discrete Math for Computer Science Tom Jenkyns, Ben Stephenson, 2012-10-16. This textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students. The text empowers students to think critically, to be effective problem solvers, to integrate theory and practice, and to recognize the importance of abstraction. Clearly structured and interactive in nature, the book presents detailed walkthroughs of several algorithms, stimulating a conversation with the reader through informal commentary and provocative questions. Features no university-level background in mathematics required, ideally structured for classroom use and self-study with modular chapters following ACM curriculum recommendations, describes mathematical processes in an algorithmic manner, contains examples and exercises throughout the text, and highlights the most important concepts in each section, selects examples that demonstrate a practical use for the concept in question.

Essential Discrete Mathematics Richard Johnsonbaugh, 1987. *Louisiana Register*, 2008.

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