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winner at the 46th annual new england book show 2003 in the college covers jackets category this introduction to discrete mathematics prepares future computer scientists engineers and mathematicians for success by providing extensive and concentrated coverage of logic functions algorithmic analysis and algebraic structures discrete mathematics second edition illustrates the relationships between key concepts through its thematic organization and provides a seamless transition between subjects distinct for the depth with which it covers

logic this text emphasizes problem solving and the application of theory as it carefully guides the reader from basic to more complex topics discrete mathematics is an ideal resource for discovering the fundamentals of discrete math discrete mathematics second edition is designed for an introductory course in discrete mathematics for the prospective computer scientist applied mathematician or engineer who wants to learn how the ideas apply to computer sciences the choice of topics and the breadth of coverage reflects the desire to provide students with the foundations needed to successfully complete courses at the upper division level in undergraduate computer science courses this book differs in several ways from current books about discrete mathematics it presents an elementary and unified introduction to a collection of topics that has not been available in a single source a major feature of the book is the unification of the material so that it does not fragment into a collection of seemingly unrelated ideas

written for the one term course essentials of discrete mathematics fourth edition is designed to serve computer science and mathematics majors as well as students from a wide range of other disciplines the mathematical material is organized around five types of thinking logical relational recursive quantitative and analytical the final chapter thinking through applications looks at different ways that discrete math thinking can be applied applications are included throughout the text and are sourced from a variety of disciplines including biology economics music and more

this comprehensive guide is perfect for anyone aiming to master data structures and algorithms in java even without prior knowledge readers will find themselves equipped with essential skills by the end of the book we ensure that you ll not only read and understand these concepts but also apply them effectively in java focusing on different aspects of data structures and problem solving this book offers detailed explanations of all key concepts we emphasize practical aspects helping you improve gradually with time and practice this is not a book to skim through but one to work with actively the text begins with fundamental terms variable comparisons and types of analysis it then progresses to topics like recursion backtracking linked lists stacks queues and trees all with a practical approach our goal is to cover all topics thoroughly using numerous examples to enhance understanding each chapter includes an introduction to ensure a smooth flow of topics making the book engaging and interesting to work with we hope this book meets your highest expectations and provides a solid foundation in java programming

quot essentials of discrete mathematics 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 presents a unified and complete picture of

discrete mathematics that instructors can move through in a single semester book jacket

concentration inequalities for functions of independent random variables is an area of probability theory that has witnessed a great revolution in the last few decades and has applications in a wide variety of areas such as machine learning statistics discrete mathematics and high dimensional geometry roughly speaking if a function of many independent random variables does not depend too much on any of the variables then it is concentrated in the sense that with high probability it is close to its expected value this book offers a host of inequalities to illustrate this rich theory in an accessible way by covering the key developments and applications in the field the authors describe the interplay between the probabilistic structure independence and a variety of tools ranging from functional inequalities to transportation arguments to information theory applications to the study of empirical processes random projections random matrix theory and threshold phenomena are also presented a self contained introduction to concentration inequalities it includes a survey of concentration of sums of independent random variables variance bounds the entropy method and the transportation method deep connections with isoperimetric problems are revealed whilst special attention is paid to applications to the supremum of empirical processes written by leading experts in the field and containing extensive exercise sections this book will be an invaluable resource for researchers and graduate students in mathematics theoretical computer science and engineering

this practical text contains fairly traditional coverage of data structures with a clear and complete use of algorithm analysis and some emphasis on file processing techniques as relevant to modern programmers it fully integrates oo programming with these topics as part of the detailed presentation of oo programming itself chapter topics include lists stacks and queues binary and general trees graphs file processing and external sorting searching indexing and limits to computation for programmers who need a good reference on data structures

discrete structure logic and computability introduces the beginning computer science student to some of the fundamental ideas and techniques used by computer scientists today focusing on discrete structures logic and computability the emphasis is on the computational aspects so that the reader can see how the concepts are actually used because of logic s fundamental importance to computer science the topic is examined extensively in three phases that cover informal logic the technique of inductive proof and formal logic and its applications to computer science

this new series offers the most comprehensive views of key areas in the world of science each set explores all facets of the topic offering not only descriptive and analytical information but also cultural and ethical issues and career opportunities in many fields of science

in this book the authors provide an introduction to the essential activities involved in a software engineering project readers will come to understand technical skills in requirements specification analysis design implementation and testing these methods are treated fully with a multitude of examples for readers to emulate the book is divided into four parts software and engineering requirements and specification design and coding and software testing to discuss the phases besides coding of the software lifecycle it covers modern topics like capability maturity model java automated and regression testing and safety for mission critical projects this book is designed to hone the skills of the software engineer by reinforcing the methods and techniques used throughout the software lifecycle it is also suitable for crossover engineers trained in other technical field who now find themselves working with software

this comprehensive encyclopedia in a z format provides easy access to relevant information for those seeking entry into any aspect within the broad field of machine learning most of the entries in this preeminent work include useful literature references

following the recent updates to the 2013 acm ieee computer science curricula discrete structures logic and computability fourth edition has been designed for the discrete math course that covers one to two semesters dr hein presents material in a spiral method of learning introducing basic information about a topic allowing the students to work on the problem and revisit the topic as new information and skills are established written for prospective computer scientist computer engineers or applied mathematicians who want to learn about the ideas that inspire computer science this edition contains an extensive coverage of logic setting it apart from similar books available in the field of computer science

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Introduction

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