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Discrete Structures, Logic, and Computability

S E C O N D E D I T I O N



JONES AND BARTLETT COMPUTER SCIENCE

Discrete Structures Logic And Computability Messenore

Edward A. Bender, S. Gill Williamson



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Discrete Structures, Logic, and Computability James L. Hein, 2009-02-25 Discrete Structures, Logic, and Computability James L. Hein, 2002 *Discrete Structures, Logic, and Computability* James L. Hein, 2015-12-11 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 **Discrete Structures**

Logic and Computability 4E (Paper) Jones & Bartlett Learning, LLC, 2023-12-29 **Discrete Structures, Logic, and Computability, 3/e** Hein, 2010-07 Written for the prospective computer scientist computer engineer or applied mathematician Discrete Structures Logic and Computability Third Edition provides elementary introductions to those ideas and techniques that are necessary to understand and practice the art and science of computing The text contains all the topics for discrete structures highlighted in the reports put forth by the IEEE ACM Joint Task Force on Computing Curricula for both computer science and computer engineering programs The author supports a spiral method of learning by introducing the basics of a given topic and then revisiting the topic whenever new skills or knowledge about the topic are needed to solve problems This approach allows students to master key material and maximizes their problem solving ability

Discrete Mathematics James L. Hein, 2003 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

Lectures On Discrete Mathematics For Computer Science

Bakhadyr M Khoussainov, Nodira Khoussainova, 2012-03-21 This textbook presents fundamental topics in discrete mathematics introduced from the perspectives of a pure mathematician and an applied computer scientist. The synergy between the two complementary perspectives is seen throughout the book; key concepts are motivated and explained through real world examples and yet are still formalized with mathematical rigor. The book is an excellent introduction to discrete mathematics for computer science software engineering and mathematics students. The first author is a leading mathematician in the area of logic computability and theoretical computer science with more than 25 years of teaching and research experience. The second author is a computer science PhD student at the University of Washington specializing in database systems. The father and daughter team merges two different views to create a unified book for students interested in learning discrete mathematics: the connections between discrete mathematics and computer science and the mathematical foundations of computer science. Readers will learn how to formally define abstract concepts, reason about objects such as programs, graphs, and numbers, investigate properties of algorithms and prove their correctness. The textbook studies several well known algorithmic problems including the path problem for graphs and finding the greatest common divisor, inductive definitions, proofs of correctness of algorithms via loop invariants and induction, the basics of formal methods such as propositional logic, finite state machines, counting, probability as well as the foundations of databases such as relational calculus.

Discrete Mathematical Structures B. V. Senthil Kumar, Hemen Dutta, 2019-07-08 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily. The concepts of discrete mathematical structures have application to computer science, engineering and information technology including coding techniques, switching circuits, pointers and linked allocation, error corrections as well as in data networking, Chemistry, Biology and many other scientific areas. The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics, Computer Science,

Engineering and Information Technology. The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities. Readers will find solved examples and end of chapter exercises to enhance reader comprehension. Features: Offers comprehensive coverage of basic ideas of Logic, Mathematical Induction, Graph Theory, Algebraic Structures and Lattices and Boolean Algebra. Provides end of chapter solved examples and practice problems. Delivers materials on valid arguments and rules of inference with illustrations. Focuses on algebraic structures to enable the reader to work with discrete structures.

Computable Structure Theory Antonio Montalbán, 2021-06-24 In mathematics we know there are some concepts, objects, constructions, structures, proofs that are more complex and difficult to describe than others. Computable structure theory quantifies and studies the complexity of mathematical structures, structures such as graphs, groups and orderings. Written by a contemporary expert in the subject.

this is the first full monograph on computable structure theory in 20 years Aimed at graduate students and researchers in mathematical logic it brings new results of the author together with many older results that were previously scattered across the literature and presents them all in a coherent framework making it easier for the reader to learn the main results and techniques in the area for application in their own research This volume focuses on countable structures whose complexity can be measured within arithmetic a forthcoming second volume will study structures beyond arithmetic

Discrete Structures Harriet Fell, Javed Aslam, 2016-12-19 Discrete Structures introduces readers to the mathematical structures and methods that form the foundation of computer science and features multiple techniques that readers will turn to regularly throughout their careers in computer and information sciences Over the course of five modules students learn specific skills including binary and modular arithmetic set notation methods of counting evaluating sums and solving recurrences They study the basics of probability proof by induction growth of functions and analysis techniques The book also discusses general problem solving techniques that are widely applicable to real problems Each module includes motivation applications technique theory and further opportunities for application Informed by extensive experience teaching in computer science programs Discrete Structures has been developed specifically for first year students in those programs The material is also suitable for courses in computer engineering as well as those for students who are transferring from other disciplines and just beginning their computer science or engineering education

Discrete Structures and Their Interactions Jason I. Brown, 2016-04-19 Discover the Connections between Different Structures and Fields Discrete Structures and Their

Interactions highlights the connections among various discrete structures including graphs directed graphs hypergraphs partial orders finite topologies and simplicial complexes It also explores their relationships to classical areas of mathematics

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

Discrete Mathematics Using a Computer John O'Donnell, Cordelia Hall, Rex Page, 2007-01-04 Computer science abounds with applications of discrete mathematics yet students of computer science often study discrete mathematics in the context of purely mathematical applications They have to figure out for themselves how to apply the ideas of discrete mathematics to computing problems It is not easy Most students fail to experience broad success in this enterprise which is not surprising since many of the most important advances in science and engineering have been precisely applications of mathematics to science and

engineering problems To be sure most discrete math textbooks incorporate some aspects applying discrete math to computing but it usually takes the form of asking students to write programs to compute the number of three ball combinations there are in a set of ten balls or at best to implement a graph algorithm Few texts ask students to use mathematical logic to analyze properties of digital circuits or computer programs or to apply the set theoretic model of functions to understand higher order operations A major aim of this text is to integrate tightly the study of discrete mathematics with the study of central problems of computer science

Computable Structures and the Hyperarithmetical Hierarchy C.J. Ash, J.

Knight, 2000-06-16 This book describes a program of research in computable structure theory The goal is to find definability conditions corresponding to bounds on complexity which persist under isomorphism The results apply to familiar kinds of structures groups fields vector spaces linear orderings Boolean algebras Abelian p groups models of arithmetic There are many interesting results already but there are also many natural questions still to be answered The book is self contained in that it includes necessary background material from recursion theory ordinal notations the hyperarithmetical hierarchy and model theory infinitary formulas consistency properties

Discrete Mathematics and Its Applications Kenneth H. Rosen, 2003 Discrete Mathematics and its Applications is a focused introduction to the primary themes in a discrete mathematics course as introduced through extensive applications expansive discussion and detailed exercise sets These themes include mathematical reasoning combinatorial analysis discrete structures algorithmic thinking and enhanced problem solving skills through modeling Its intent is to demonstrate the relevance and practicality of discrete mathematics to all students The Fifth Edition includes a more thorough and linear presentation of logic proof types and proof writing and mathematical reasoning This enhanced coverage will provide students with a solid understanding of the material as it relates to their immediate field of study and other relevant subjects The inclusion of applications and examples to key topics has been significantly addressed to add clarity to every subject True to the Fourth Edition the text specific web site supplements the subject matter in meaningful ways offering additional material for students and instructors Discrete math is an active subject with new discoveries made every year The continual growth and updates to the web site reflect the active nature of the topics being discussed The book is appropriate for a one or two term introductory discrete mathematics course to be taken by students in a wide variety of majors including computer science mathematics and engineering College Algebra is the only explicit prerequisite

Applied Discrete Structures for Computer Science Alan Doerr, Kenneth Levasseur, 1985

Applied Discrete Structures - Part 1 Ken Levasseur, Al Doerr, 2017-05-02 This is Part 1 of Applied Discrete Structures containing the fundamental concepts taught in a one semester course in discrete mathematics It corresponds with the content of Discrete Structures I at UMass Lowell which is a required course for students in Computer Science Mathematics and Information Technology Part II Applied Abstract Algebra would normally be used in a second semester course such as Discrete Structures II at UMass Lowell Applied Discrete Structures has been approved by the American Institute of

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Introduction to Discrete Mathematics Koo-Guan Choo, Donald E. Taylor, Choo, 1994 Discrete Mathematics covers such a wide range of topics that it is difficult to give a simple definition of the subject Whereas calculus deals with continuous or even smooth objects discrete mathematics deals with things that come in chunks that can be counted We will be a lot more precise about just what sort of chunks we are dealing with in the later chapters If your mathematical background is only high school calculus you could well believe that mathematics is only about numbers functions and formulas for solving problems If this is the case the topics in this book may be quite a surprise because for mathematicians computer scientists and engineers Discrete Mathematics includes logic set theory enumeration networks automata for mal languages and many other discrete structures That is what this book is about On the other hand in 19 lectures we can only present an introduction to the subject and we must leave other important topics such as graph theory error correcting codes discrete probability theory and applications to theoretical computer science to a second or third course The topics covered are set theory logic Boolean algebra counting generating functions recurrence relations finite automata and formal languages with a lot of emphasis on counting The set theory and logic is basic material which will be useful many courses besides Discrete Mathematics Counting problems which look quite hard when stated in ordinary English can often be solved easily when translated into the language of set theory We give many examples that reduce to counting the number of functions of various types between sets or counting the number of subsets of a set

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

Introduction to Discrete Mathematics via Logic and Proof Calvin Jongsma, 2020-12-11 This textbook introduces discrete mathematics by emphasizing the importance of reading and writing proofs Because it begins by carefully establishing a familiarity with mathematical logic and proof this approach suits not only a discrete mathematics course but can also function as a transition to proof Its unique deductive perspective on mathematical

logic provides students with the tools to more deeply understand mathematical methodology an approach that the author has successfully classroom tested for decades Chapters are helpfully organized so that as they escalate in complexity their underlying connections are easily identifiable Mathematical logic and proofs are first introduced before moving onto more complex topics in discrete mathematics Some of these topics include Mathematical and structural induction Set theory Combinatorics Functions relations and ordered sets Boolean algebra and Boolean functions Graph theory Introduction to Discrete Mathematics via Logic and Proof will suit intermediate undergraduates majoring in mathematics computer science engineering and related subjects with no formal prerequisites beyond a background in secondary mathematics

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