Gordon J. Pace

Mathematics of Discrete Structures for Computer Science

Discrete Structures An Introduction To Mathematics For Computer Scientists

Judith L. Gersting

Discrete Structures An Introduction To Mathematics For Computer Scientists:

Discrete Mathematics for Computer Science Jon Pierre Fortney,2020-12-23 Discrete Mathematics for Computer Science An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook *Mathematics of Discrete Structures for Computer Science* Gordon J. Pace,2012-07-09 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering **Discrete Structures** Fletcher R. Norris,1985 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   **String Theory and Its Applications: Tasi 2010** Michael Dine,   Discrete Structures Andreas Klappenecker,Hyunyoung Lee,2024-11-11   **A Beginner's Guide to Discrete Mathematics** W.D. Wallis,2013-03-14 This text is a basic introduction to those areas of discrete mathematics used by stu dents of mathematics and computer science Introductory courses on this material are now standard at many colleges and universities Usually these courses are of one semester s duration and usually they are offered at the sophomore level Very often this will be the first course where the students see several real proofs The preparation of the students is very mixed and one cannot assume a strong back ground In particular the instructor should not assume that the students have seen a linear algebra course or any introduction to number systems that goes beyond college algebra In view of this I have tried to avoid too much sophistication while still re taining rigor I hope I have included enough problems so that the student can reinforce the concepts Most of the problems are quite easy with just a few dif ficult exercises scattered through the text If the class is weak a small number of sections will be too hard while the instructor who has a strong class will need to include some supplementary material I think this is preferable to a book at a higher mathematical level which will scare away weaker students   *Discrete Mathematics* Oscar Levin,2024-12 This book aims to provide an introduction to select topics in discrete mathematics at a level appropriate for first or second year undergraduate math and computer science majors especially those who intend to teach middle and high school mathematics The book began as a set of notes for the Discrete Mathematics course at the University of Northern Colorado This course serves both as a survey of the topics in discrete math and as the bridge course for math majors   *Mathematical Structures for Computer Science* Judith L. Gersting,2007 This edition offers a pedagogically rich and intuitive introduction to discrete mathematics structures It meets the needs of computer science majors by being both comprehensive and accessible   *Lectures on Discrete Mathematics for Computer Science* Bakhadyr Khoussainov,Nodira Khoussainova,2012 Presents the fundamental topics of discrete mathematics that are introduced from the perspectives of a pure mathematician and an applied computer scientist This book helps readers learn how to formally define abstract concepts reason about objects investigate properties of algorithms and prove their correctness   *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 medthod 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 Mathematics for Computer Scientists* J. K. Truss,1999 This is a new edition of a successful introduction to discrete mathematics for computer scientists updated and reorganised to be more appropriate for the modern day undergraduate audience Discrete mathematics forms the theoretical basis for computer science and this text combines a rigorous approach to mathematical concepts with strong motivation of these techniques via practical examples Key Features Thorough coverage of all area of discrete mathematics including logic natural numbers coding theory combinatorics sets algebraic functions partially ordered structures graphs formal machines complexity theory Special emphasis on the central role of propositional predicate logic Full chapters on algorithm analysis complexity theory Introductory coverage of formal machines coding theory Over 700 exercises Flexible structure so that the material can be easily adapted for different teaching styles New to this Edition Improved treatment of induction Coverage of more basic algebra List of symbols including page references for definition explantion Modern text design and new exercises to aid student comprehension 0201360616B04062001   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 mathemati cians 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 sec ond or third course The topics covered are set theory logic Boolean algebra count ing 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 **Discrete Structures of Computer Science** Leon S. Levy,1980 Connecting Discrete Mathematics and Computer Science David Liben-Nowell,2022-08-04 An approachable textbook connecting the mathematical foundations of computer science to broad ranging and compelling applications throughout the field *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 **Guide to Discrete Mathematics** Gerard O'Regan,2016-09-16 This stimulating textbook presents a broad and accessible guide to the fundamentals of discrete mathematics highlighting how the techniques may be applied to various exciting areas in computing The text is designed to motivate and inspire the reader encouraging further study in this important skill Features provides an introduction to the building blocks of discrete mathematics including sets relations and functions describes the basics of number theory the techniques of induction and recursion and the applications of mathematical sequences series permutations and combinations presents the essentials of algebra explains the fundamentals of automata theory matrices graph theory cryptography coding theory language theory and the concepts of computability and decidability reviews the history of logic discussing propositional and predicate logic as well as advanced topics examines the field of software engineering describing formal methods investigates probability and statistics **Discrete Mathematical Algorithm, and Data Structures** Sanjib Sinha,2020-05-28 Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming languages such as C C PHP Java C Python and Dart This book combines two major components of Mathematics and Computer Science under one roof Without the core conceptions and tools derived from discrete mathematics one cannot understand the abstract or the general idea involving algorithm and data structures in Computer Science The objects of data structures are basically objects of discrete mathematics This book tries to bridge the gap between two major components of Mathematics and Computer Science In any computer science course studying discrete mathematics is essential although they are taught separately except in a few cases Yet a comprehensive book combining these two major components is hard to find out not only that it is almost impossible to understand one without the help of other Hope this book will fill the gap Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming language such as C Java C Python and Dart 1 Introduction to the Discourse Is Discrete Mathematics enough to study Computer Science A short Introduction to Discrete Mathematics What is Discrete Mathematics What is the relationship between Discrete Mathematics and Computer Science Introducing necessary conceptions 2 Introduction to Programming Language and Boolean Algebra Logic Mathematics and Programming Language Introduction to Boolean Algebra 3 De

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standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics **Discrete and Algebraic Structures** Ulrich Knauer,Kolja Knauer,2025-04-27 This textbook presents the topics typically covered in a standard course on discrete structures It is aimed at students of computer science and mathematics teaching degree and Bachelor s Master s and is designed to accompany lectures for self study and for exam preparation Through explanatory introductions to definitions numerous examples counterexamples diagrams cross references and outlooks the authors manage to present the wide range of topics concisely and comprehensibly Numerous exercises facilitate the deepening of the material Due to its compact presentation of all important discrete and algebraic structures and its extensive index the book also serves as a reference for mathematicians computer scientists and natural scientists Contents From propositional and predicate logic to sets and combinatorics numbers relations and mappings graphs to the rich spectrum of algebraic structures and a brief introduction to category theory Additional chapters include rings and modules as well as matroids This book is a translation of the second German edition The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content so the book may read stylistically differently from a conventional translation The Authors Prof Dr Dr h c Ulrich Knauer is a retired professor of mathematics at Carl von Ossietzky University of Oldenburg Germany Dr habil Kolja Knauer is an associate professor in discrete mathematics and computer science at Aix Marseille University France and at the University of Barcelona Spain

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