

Discrete Mathematics for Computer Science

An Example-Based Introduction



Jon Pierre Fortney



CRC Press

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A CHAPMAN & HALL BOOK

Discrete Mathematics For Computing

Stahl Zsolt



Discrete Mathematics For Computing:

Discrete Mathematics for Computing Peter Grossman, 2009 For first year undergraduate computing students with very little mathematical background this is a low level introductory text which takes the topics at a gentle pace covering all the essential material that forms the background for studies in computing and information systems *Discrete Mathematics for Computing* John E. Munro, 1992 *Discrete Mathematics for Computing* Andrew Vince, Claire Morris, 1990 This text is suitable for an introductory course in the mathematics related to computing generally referred to as discrete mathematics Topics covered include set theory logic and methods of proof graphs digraphs and trees number systems and matrix algebra and an introduction to binary codes Throughout the book the interrelations between the mathematical structures and their representations is stressed and use is made of action diagrams as a language independent means of presenting algorithmic processes Readers who work through this text will acquire the mathematical knowledge and approach to problem solving required by introductory computing courses and a sound bases from which to pursue the subject further **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 *Discrete Mathematics for Computing* Rod Haggarty, 2014 **Discrete Mathematics for Computer Science** Gary Haggard, John Schlipf, Sue Whitesides, 2006 Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD ROM An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language Through a

wealth of exercises and examples you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career Foundation Discrete Mathematics for Computing Dexter J. Booth,1994-12-01 *Discrete Mathematics with Computer Science Applications* Romualdas Skvarcius,William B.

Robinson,1986 **Discrete Mathematics Using a Computer** John O'Donnell,Cordelia Hall,Rex Page,2009-10-12

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 specific 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

Discrete Mathematics for Computer Science David Liben-Nowell,2017-09-05 Written exclusively with computer science students in mind *Discrete Mathematics for Computer Science* provides a comprehensive treatment of standard course topics for the introductory discrete mathematics course with a strong emphasis on the relationship between the concepts and their application to computer science The book has been crafted to enhance teaching and learning ease and includes a wide selection of exercises detailed exploration problems examples and problems inspired by wide ranging applications of computer science and handy quick reference guides for key technical topics throughout *Discrete Mathematics for Computer Science* provides a lucidly written introduction to discrete mathematics with abundant support for learning including over 450 examples thorough chapter summaries simple quizzes and approximately 1600 homework exercises of widely varying difficulty Each chapter begins with motivational content that relates the chapter topic to computer science practice and the book also includes over fifty Computer Science Connections which discuss applications to computer science such as Rotation Matrices Game Trees Logic and Winning Tic Tac Toe Moore's Law Secret Sharing The Enigma Machine and the First Computer Bayesian Modeling and Spam Filtering and Quantum Computing **Discrete Mathematics for**

Computing Rod Haggarty,2002 A concise introduction to key mathematical ideas for computing students which develops their understanding of discrete mathematics and its application in computing The topics are presented in a logical order that build upon each other and are constantly reinforced by worked examples Reliance on students previous mathematical experience is kept to a minimum though some basic algebraic manipulation is required *Fundamentals of Discrete Math*

for Computer Science Tom Jenkyns, Ben Stephenson, 2018-05-03 This clearly written textbook presents an accessible introduction to discrete mathematics for computer science students offering the reader an enjoyable and stimulating path to improve their programming competence The text empowers students to think critically to be effective problem solvers to integrate theory and practice and to recognize the importance of abstraction Its motivational and interactive style provokes a conversation with the reader through a questioning commentary and supplies detailed walkthroughs of several algorithms This updated and enhanced new edition also includes new material on directed graphs and on drawing and coloring graphs in addition to more than 100 new exercises with solutions to selected exercises Topics and features assumes no prior mathematical knowledge and discusses concepts in programming as and when they are needed designed for both classroom use and self study presenting modular and self contained chapters that follow ACM curriculum recommendations describes mathematical processes in an algorithmic manner often supported by a walkthrough demonstrating how the algorithm performs the desired task includes an extensive set of exercises throughout the text together with numerous examples and shaded boxes highlighting key concepts selects examples that demonstrate a practical use for the concept in question Students embarking on the start of their studies of computer science will find this book to be an easy to understand and fun to read primer ideal for use in a mathematics course taken concurrently with their first programming course Discrete

Mathematics for Computer Science Kenneth Bogart, Clifford Stein, Robert L. Drysdale, 2005-09-08 Discrete Mathematics for Computer Science is the perfect text to combine the fields of mathematics and computer science Written by leading academics in the field of computer science readers will gain the skills needed to write and understand the concept of proof This text teaches all the math with the exception of linear algebra that is needed to succeed in computer science The book explores the topics of basic combinatorics number and graph theory logic and proof techniques and many more Appropriate for large or small class sizes or self study for the motivated professional reader Assumes familiarity with data structures Early treatment of number theory and combinatorics allow readers to explore RSA encryption early and also to encourage them to use their knowledge of hashing and trees from CS2 before those topics are covered in this course **Discrete**

Mathematics For Computer Scientists Stein Clifford, 2010-09 *Guide to Discrete Mathematics* Gerard

O'Regan, 2021-10-28 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 This book 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 such as the nature of theorem proving examines the field of software engineering including software reliability and dependability and describes formal methods investigates probability and statistics and presents an overview of operations research and financial mathematics

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

Essential Discrete Mathematics for Computer Science Harry Lewis, 2013

Discrete Mathematics Martin Aigner, The advent of fast computers and the search for efficient algorithms revolutionized combinatorics and brought about the field of discrete mathematics This book is an introduction to the main ideas and results of discrete mathematics and with its emphasis on algorithms it should be interesting to mathematicians and computer scientists alike The book is organized into three parts enumeration graphs and algorithms and algebraic systems There are 600 exercises with hints and solutions to about half of them The only prerequisites for understanding everything in the book are linear algebra and calculus at the undergraduate level Praise for the German edition This book is a well written introduction to discrete mathematics and is highly recommended to every student of mathematics and computer science as well as to teachers of these topics Konrad Engel for MathSciNet Martin Aigner is a professor of mathematics at the Free University of Berlin He received his PhD at the University of Vienna and has held a number of positions in the USA and Germany before moving to Berlin He is the author of several books on discrete mathematics graph theory and the theory of search The Monthly article Turan's graph theorem earned him a 1995 Lester R Ford Prize of the MAA for expository writing and his book *Proofs from the BOOK* with Gunter M Ziegler has been an international success with translations into 12

languages Discrete Math for Computer Science Students Stahl Zsolt, 2016-08-28 Discrete Mathematics for Computer Science Students emphasizes mathematical definitions and proofs as well as applicable methods Topics include formal logic notation proof methods induction well ordering sets relations elementary graph theory integer congruences asymptotic notation and growth of functions permutations and combinations counting principles discrete probability Further selected topics may also be covered such as recursive definition and structural induction state machines and invariants recurrences generating functions **Understand Mathematics, Understand Computing** Arnold L. Rosenberg, Denis

Trystram, 2020-12-05 In this book the authors aim to endow the reader with an operational conceptual and methodological understanding of the discrete mathematics that can be used to study understand and perform computing They want the reader to understand the elements of computing rather than just know them The basic topics are presented in a way that encourages readers to develop their personal way of thinking about mathematics Many topics are developed at several levels in a single voice with sample applications from within the world of computing Extensive historical and cultural asides emphasize the human side of mathematics and mathematicians By means of lessons and exercises on doing mathematics the book prepares interested readers to develop new concepts and invent new techniques and technologies that will enhance all aspects of computing The book will be of value to students scientists and engineers engaged in the design and use of computing systems and to scholars and practitioners beyond these technical fields who want to learn and apply novel computational ideas

This book delves into Discrete Mathematics For Computing. Discrete Mathematics For Computing is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Discrete Mathematics For Computing, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 2: Essential Elements of Discrete Mathematics For Computing
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 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Discrete Mathematics For Computing. The final chapter will summarize the key points that have been discussed throughout the book.
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