# Discrete Mathematics for Computer Science

An Example-Based Introduction



Jon Pierre Fortney



# **Discrete Mathematics For Computing**

**Andrew Vince, Claire Morris** 

#### **Discrete Mathematics For Computing:**

**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 **Discrete Mathematics for Computing** Peter Grossman, 2017-09-16 Discrete Mathematics for Computing further presents the essential mathematics needed for the study of computing and information systems. The subject is covered in a gentle and informal style but without compromising the need for correct methodology It is perfect for students with a limited background in mathematics This new edition includes An expanded section on encryption Additional examples of the ways in which theory can be applied to problems in computing Many more exercises covering a range of levels from the basic to the more advanced This book is ideal for students taking a one semester introductory course in discrete mathematics particularly for first year undergraduates studying Computing and Information Systems PETER GROSSMAN has worked in both academic and industrial roles as a mathematician and computing professional As a lecturer in mathematics he was responsible for coordinating and developing mathematics courses for Computing students He has also applied his skills in areas as diverse as calculator design irrigation systems and underground mine layouts He lives and works in Melbourne Discrete Mathematics for Computing Rod Haggarty, 2014 **Discrete Mathematics for Computer Science** Australia 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 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 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 s dents of computer science often study discrete mathematics in the context of purely mathematical applications. They have to gure 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 engineeringhave been precisely applicationsofmathematicstospeci escience and engineering problems Tobesure most 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

Foundation Discrete Mathematics for Computing Dexter J. Booth,1994-12-01 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 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 guizzes 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

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 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

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#### Decoding **Discrete Mathematics For Computing**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Discrete Mathematics For Computing**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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