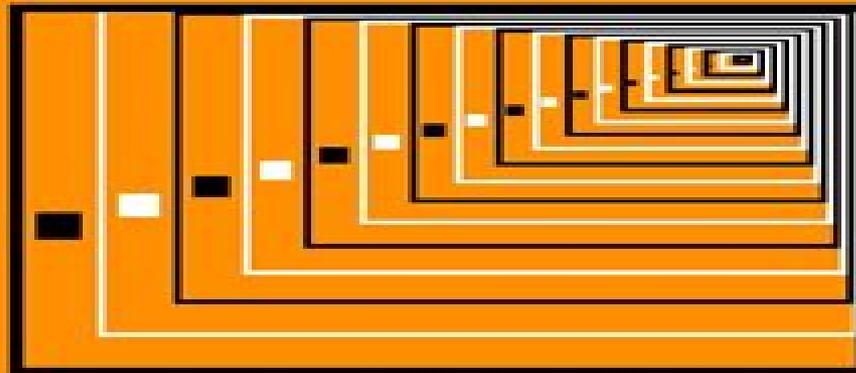


Malik Magdon-Ismail

# DISCRETE MATHEMATICS & COMPUTING

A SET OF LECTURES



# Discrete Mathematics For Computing

**Martin Aigner**



## **Discrete Mathematics For Computing:**

**Discrete Mathematics for Computing** John E. Munro, 1992-07 DSP System Design presents the investigation of special type of IIR polyphase filter structures combined with frequency transformation techniques used for fast multi rate filtering and their application for custom fixed point implementation Detailed theoretical analysis of the polyphase IIR structure has been presented for two and three coefficients in the two path arrangement This was then generalized for arbitrary filter order and any number of paths The use of polyphase IIR structures in decimation and interpolation is being presented and performance assessed in terms of the number of calculations required for the given filter specification and the simplicity of implementation Specimen decimation filter designs to be used in Sigma Delta lowpass and bandpass A D converters are presented which prove to outperform other traditional approaches New frequency transformation types have been suggested for both real and complex situations A new exact multi point frequency transformation approach for arbitrary frequency choice has been suggested and evaluated Applying such transformations to the existing filter allows to change their frequency response in an intuitive manner without the need of re designing them thus simplifying the designer s job when the specification changes during the prototyping and testing A new bit flipping algorithm has been developed to aid in filter design where the coefficient word length is constraint Also the standard Downhill Simplex Method floating point was modified to operate with the constrained coefficient word length Performance of both these advances is being evaluated on a number of filter cases Novel decimation and interpolation structures have been proposed which can be implemented very efficiently These allow an arbitrary order IIR anti aliasing filter to operate at the lower rate of the decimator interpolator Similar structures for polyphase IIR decimator interpolator structures are being discussed too A new approach to digital filter design and implementation has been suggested which speeds up silicon implementation of designs developed in Matlab The Simulink block description is converted automatically into a bit to bit equivalent VHDL description This in turn can be compiled simulated synthesized and fabricated without the need to go through the design process twice first algorithmic structural design and then the implementation The book is full of design and analysis techniques It contains sufficient introductory material enabling non expert readers to understand the material given in it DSP System Design may be of interest to graduate students researchers and professionals circuit designers who would require fast and low complexity digital filters for both single and multi rate applications especially those with low power specification **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** 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 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 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 Computing* Peter Grossman, 2017-09-16 Discrete Mathematics for Computing 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 Australia

*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

**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 Computing* Rod Haggarty,2014

**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 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 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

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**Foundation Discrete Mathematics for Computing** D. J. Both,2014-09-01

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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

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

**Discrete Mathematics with Computer Science Applications** Romualdas Skvarcius,William B. Robinson,1986 *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** Todd Feil,Joan Krone,2003 This book introduces readers to the mathematics of computer science and prepares them for the math they will encounter in other college courses It includes applications that

are specific to computer science helps learners to develop reasoning skills and provides the fundamental mathematics necessary for computer scientists Chapter topics include sets functions and relations Boolean algebra natural numbers and induction number theory recursion solving recurrences counting matrices and graphs For computer scientists and the enhancement of programming skills **Essential Discrete Mathematics for Computer Science** Harry Lewis,2013

Discrete Mathematics Martin Aigner,2023-01-24 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 G nter M Ziegler has been an international success with translations into 12 languages

## **Discrete Mathematics For Computing** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Discrete Mathematics For Computing**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Discrete Mathematics For Computing Introduction**

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