

Undergraduate Topics in Computer Science

Tom Jenkyns
Ben Stephenson

Fundamentals of Discrete Math for Computer Science

A Problem-Solving Primer

Second Edition



 Springer

Fundamentals Of Discrete Math For Computer Science A Problem Solving Primer Undergraduate Topics In Computer Science

Sergei Kurgalin, Sergei Borzunov



Fundamentals Of Discrete Math For Computer Science A Problem Solving Primer Undergraduate Topics In Computer Science:

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 **Concrete**

Abstractions Wolfgang Schreiner, 2023-04-11 This book demonstrates how to formally model various mathematical domains including algorithms operating in these domains in a way that makes them amenable to a fully automatic analysis by computer software The presented domains are typically investigated in discrete mathematics logic algebra and computer science they are modeled in a formal language based on first order logic which is sufficiently rich to express the core entities in whose correctness we are interested mathematical theorems and algorithmic specifications This formal language is the language of RISCAL a mathematical model checker by which the validity of all formulas and the correctness of all algorithms can be automatically decided The RISCAL software is freely available all formal contents presented in the book are given in the form of specification files by which the reader may interact with the software while studying the corresponding book material *The Discrete Math Workbook* Sergei Kurgalin, Sergei Borzunov, 2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including Turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite

summation formulae in an appendix together with basic rules for differential and integral calculus This hands on workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language *The Discrete Math Workbook* Sergei Kurgalin, Sergei Borzunov, 2018-07-31 This practically oriented textbook presents an accessible introduction to discrete mathematics through a substantial collection of classroom tested exercises Each chapter opens with concise coverage of the theory underlying the topic reviewing the basic concepts and establishing the terminology as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide is designed to address the core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language **Fundamentals of Discrete Math for Computer Science** Derrick McClure, 2017-09-13 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 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

Essential Discrete Mathematics for Computer Science Harry Lewis,Rachel Zax,2019-03-19 A more intuitive approach to the mathematical foundation of computer science Discrete mathematics is the basis of much of computer science from algorithms and automata theory to combinatorics and graph theory This textbook covers the discrete mathematics that every computer science student needs to learn Guiding students quickly through thirty one short chapters that discuss one major topic each this flexible book can be tailored to fit the syllabi for a variety of courses Proven in the classroom *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 The text requires only precalculus and where calculus is needed a quick summary of the basic facts is provided *Essential Discrete Mathematics for Computer Science* is the ideal introductory textbook for standard undergraduate courses and is also suitable for high school courses distance education for adult learners and self study The essential introduction to discrete mathematics Features thirty one short chapters each suitable for a single class lesson Includes more than 300 exercises Almost every formula and theorem proved in full Breadth of content makes the book adaptable to a variety of courses Each chapter includes a concise summary Solutions manual available to instructors

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

[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

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

Discrete Mathematics For Computer Scientist Ali Selamat, Md Hafiz Selamat, 2012 This book serves as an introduction to computer sciences students in the undergraduate levels It will be used as the foundation to understand the discrete mathematic in developing the logic of computer programs Since there are also similar undergraduate computer science programmes in other local and overseas institutions this book is expected to find wider local and international readership Topics covered in this book include set theory and relations functions sequence and string propositional logic predicate logic matrices graph theory and trees As the book serves as an introductory level to computer science students it is expected that once the students are already familiar with the presented contents it will enable them to understand the advanced topics in computer science such as advanced theory of computer science and computational complexity theories The chapters in this book have been organized for the

students to learn and understand the main concepts of discrete mathematics for developing computer applications during the period of their studies In information technology IT and computer science fields most of information is represented in digital electronics based on the basic knowledge of discrete mathematics Therefore discrete mathematics is one of the relevant courses to support students for better learning and understanding the nature of computer science and IT It is expected that by using the materials presented in this book students should be able to write statements using mathematical language develop mathematical arguments using logic apply the concept of integers and its role in modeling and solving problems in IT and apply the concept of graph and tree for modeling and solving problems related to real situations 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* 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 **A Beginner's Guide to Discrete Mathematics** W.D. Wallis,2011-10-07 Wallis s book on discrete mathematics is

a resource for an introductory course in a subject fundamental to both mathematics and computer science a course that is expected not only to cover certain specific topics but also to introduce students to important modes of thought specific to each discipline Lower division undergraduates through graduate students Choice reviews Review of the First Edition Very appropriately entitled as a beginner s guide this textbook presents itself as the first exposure to discrete mathematics and

rigorous proof for the mathematics or computer science student Zentralblatt Math Review of the First Edition This second edition of A Beginner's Guide to Discrete Mathematics presents a detailed guide to discrete mathematics and its relationship to other mathematical subjects including set theory probability cryptography graph theory and number theory This textbook has a distinctly applied orientation and explores a variety of applications Key Features of the second edition Includes a new chapter on the theory of voting as well as numerous new examples and exercises throughout the book Introduces functions vectors matrices number systems scientific notations and the representation of numbers in computers Provides examples which then lead into easy practice problems throughout the text and full exercise at the end of each chapter Full solutions for practice problems are provided at the end of the book This text is intended for undergraduates in mathematics and computer science however featured special topics and applications may also interest graduate students

Journey into Discrete Mathematics Owen D. Byer, Deirdre L. Smeltzer, Kenneth L. Wantz, 2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject

Invitation to Discrete Mathematics Jiří Matoušek, Jaroslav Nešetřil, 2008-10-10 This book is a clear and self contained introduction to discrete mathematics Aimed mainly at undergraduate and early graduate students of mathematics and computer science it is written with the goal of stimulating interest in mathematics and an active problem solving approach to the presented material The reader is led to an understanding of the basic principles and methods of actually doing mathematics and having fun at that Being more narrowly focused than many discrete mathematics textbooks and treating selected topics in an unusual depth and from several points of view the book reflects the conviction of the authors active and internationally renowned mathematicians that the most important gain from studying mathematics is the cultivation of clear and logical thinking and habits useful for attacking new

problems More than 400 enclosed exercises with a wide range of difficulty many of them accompanied by hints for solution support this approach to teaching The readers will appreciate the lively and informal style of the text accompanied by more than 200 drawings and diagrams Specialists in various parts of science with a basic mathematical education wishing to apply discrete mathematics in their field can use the book as a useful source and even experts in combinatorics may occasionally learn from pointers to research literature or from presentations of recent results Invitation to Discrete Mathematics should make a delightful reading both for beginners and for mathematical professionals The main topics include elementary counting problems asymptotic estimates partially ordered sets basic graph theory and graph algorithms finite projective planes elementary probability and the probabilistic method generating functions Ramsey's theorem and combinatorial applications of linear algebra General mathematical notions going beyond the high school level are thoroughly explained in the introductory chapter An appendix summarizes the undergraduate algebra needed in some of the more advanced sections of the book

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

A First Course in Discrete Mathematics Ian Anderson, 2012-12-06 Discrete mathematics has now established its place in most undergraduate mathematics courses This textbook provides a concise readable and accessible introduction to a number of topics in this area such as enumeration graph theory Latin squares and designs It is aimed at second year undergraduate mathematics students and provides them with many of the basic techniques ideas and results It contains many worked examples and each chapter ends with a large number of exercises with hints or solutions provided for most of them As well as including standard topics such as binomial coefficients recurrence the inclusion exclusion principle trees Hamiltonian and Eulerian graphs Latin squares and finite projective planes the text also includes material on the m nage problem magic squares Catalan and Stirling numbers and tournament schedules

Discrete Mathematics and Graph Theory K. Erciyes, 2021-01-28 This textbook can serve as a comprehensive manual of discrete mathematics and graph theory for non Computer Science majors as a reference and study aid for professionals and researchers who have not taken any

discrete math course before It can also be used as a reference book for a course on Discrete Mathematics in Computer Science or Mathematics curricula The study of discrete mathematics is one of the first courses on curricula in various disciplines such as Computer Science Mathematics and Engineering education practices Graphs are key data structures used to represent networks chemical structures games etc and are increasingly used more in various applications such as bioinformatics and the Internet Graph theory has gone through an unprecedented growth in the last few decades both in terms of theory and implementations hence it deserves a thorough treatment which is not adequately found in any other contemporary books on discrete mathematics whereas about 40% of this textbook is devoted to graph theory The text follows an algorithmic approach for discrete mathematics and graph problems where applicable to reinforce learning and to show how to implement the concepts in real world applications

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