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A First Course in Discrete Mathematics



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Edward A. Bender, S. Gill Williamson



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A First Course in Discrete Mathematics John C. Molluzzo, Fred Buckley, 1997-01-28 This highly regarded work fills the need for a treatment of elementary discrete mathematics that provides a core of mathematical terminology and concepts as well as emphasizes computer applications Includes numerous elementary applications to computing and examples with solutions

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 manage problem magic squares Catalan and Stirling numbers and tournament schedules

[First Course in Discrete Math](#) Molluzzo, **A First Course in Discrete Mathematics** Ian Anderson (Ph. D.), 2001 [A First Course In Discrete Mathematics](#) Anderson Ian, 2008-08-01

Graphs Robin J. Wilson, John J. Watkins, 1990 An introduction to discrete mathematics this new text on graph theory develops a mathematical framework to interrelate and solve different problems It introduces the concepts of logic proof and mathematical problem solving and places an emphasis on algorithms in every chapter

[Discrete Math](#) Molluzzo, 1988-08-01 *A Short Course in Discrete Mathematics* Edward A. Bender, S. Gill Williamson, 2005-01-01 What sort of mathematics do I need for computer science In response to this frequently asked question a pair of professors at the University of California at San Diego created this text Its sources are two of the university's most basic courses Discrete Mathematics and Mathematics for Algorithm and System Analysis Intended for use by sophomores in the first of a two quarter sequence the text assumes some familiarity with calculus Topics include Boolean functions and computer arithmetic logic number theory and cryptography sets and functions equivalence and order and induction sequences and series Multiple choice questions for review appear throughout the text Original 2005 edition Notation Index Subject Index

A First Course in Coding Theory Raymond Hill, 1986 Algebraic coding theory is a new and rapidly developing subject popular for its many practical applications and for its fascinatingly rich mathematical structure This book provides an elementary yet rigorous introduction to the theory of error correcting codes Based on courses given by the author over several years to advanced undergraduates and first year graduated students this guide includes a large number of exercises all with solutions making the book highly suitable for individual study

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

First Course in Algorithms Through Puzzles Ryuhei

Uehara,2018-12-06 This textbook introduces basic algorithms and explains their analytical methods All algorithms and methods introduced in this book are well known and frequently used in real programs Intended to be self contained the contents start with the basic models and no prerequisite knowledge is required This book is appropriate for undergraduate students in computer science mathematics and engineering as a textbook and is also appropriate for self study by beginners who are interested in the fascinating field of algorithms More than 40 exercises are distributed throughout the text and their difficulty levels are indicated Solutions and comments for all the exercises are provided in the last chapter These detailed solutions will enable readers to follow the author s steps to solve problems and to gain a better understanding of the contents Although details of the proofs and the analyses of algorithms are also provided the mathematical descriptions in this book are not beyond the range of high school mathematics Some famous real puzzles are also used to describe the algorithms These puzzles are quite suitable for explaining the basic techniques of algorithms which show how to solve these puzzles

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

Introduction to Abstract Mathematics

John F. Lucas,1990 This is a book about mathematics and mathematical thinking It is intended for the serious learner who is interested in studying some deductive strategies in the context of a variety of elementary mathematical situations No background beyond single variable calculus is presumed

A First Course in Enumerative Combinatorics

Carl G. Wagner,2020-10-29 A First Course in Enumerative Combinatorics provides an introduction to the fundamentals of enumeration for advanced undergraduates and beginning graduate students in the mathematical sciences The book offers a careful and comprehensive account of the standard tools of enumeration recursion generating functions sieve and inversion formulas enumeration under group actions and their application to counting problems for the fundamental structures of discrete mathematics including sets and multisets words and permutations partitions of sets and integers and graphs and trees The author s exposition has been strongly influenced by the work of Rota and Stanley highlighting bijective proofs partially ordered sets and an emphasis on organizing the subject under various unifying themes including the theory of incidence algebras In addition there are distinctive chapters on the combinatorics of finite vector spaces a detailed account of formal power series and combinatorial number theory The reader is assumed to have a knowledge of basic linear algebra and some familiarity with power series There are over 200 well designed exercises ranging in difficulty from straightforward to challenging There are also sixteen large scale honors projects on special topics appearing throughout the text The author is a distinguished combinatorialist and award winning teacher and he is currently Professor Emeritus of Mathematics and Adjunct Professor of Philosophy at the University of Tennessee He has published widely in number theory combinatorics probability decision theory and formal epistemology His Erd s number is 2

Discrete Mathematics in the First Two

Years Anthony Ralston,1989 **The Future of College Mathematics** A. Ralston,G. S. Young,2012-12-06 The Conference Workshop of which these are the proceedings was held from 28 June to 1 July 1982 at Williams College Williamstown MA The meeting was funded in its entirety by the Alfred P Sloan Foundation The conference program and the list of participants follow this introduction The purpose of the conference was to discuss the restructuring of the first two years of college mathematics to provide some balance between the traditional calculus linear algebra sequence and discrete mathematics The remainder of this volume contains arguments both for and against such a change and some ideas as to what a new curriculum might look like A too brief summary of the deliberations at Williams is that while there were and are inevitable

differences of opinion on details and nuance at least the attendees at this conference had no doubt that change in the lower division mathematics curriculum is desirable and is coming

A First Course in Discrete Dynamical Systems Richard A. Holmgren, 2012-12-06 An increasing number of colleges and universities are offering undergraduate courses in discrete dynamical systems This growth is due in part to the proliferation of inexpensive and powerful computers which have provided access to the interesting and complex phenomena that are at the heart of dynamics A second reason for introducing dynamics into the undergraduate curriculum is that it serves as a bridge from concrete often algorithmic calculus courses to the more abstract concepts of analysis and topology Discrete dynamical systems are essentially iterated functions and if there is one thing computers do well it is iteration It is now possible for anyone with access to a personal computer to generate beautiful images whose roots lie in discrete dynamical systems The mathematics behind the pictures are beautiful in their own right and are the subject of this text Every effort has been made to exploit this opportunity to illustrate the beauty and power of mathematics in an interesting and engaging way This work is first and foremost a mathematics book Individuals who read it and do the exercises will gain not only an understanding of dynamical systems but an increased understanding of the related areas in analysis as well

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

Discrete Mathematics with Applications Susanna S. Epp, 2004 Susanna Epp's DISCRETE MATHEMATICS THIRD EDITION provides a clear introduction to discrete mathematics Renowned for her lucid accessible prose Epp explains complex abstract concepts with clarity and precision This book presents not only the major themes of discrete mathematics but also the reasoning that underlies mathematical thought Students develop the ability to think abstractly as they study the ideas of logic and proof While learning about such concepts as logic circuits and computer addition algorithm analysis recursive thinking computability automata cryptography and combinatorics students discover that the ideas of discrete mathematics underlie and are essential to the science and technology of the computer age Overall

Epp's emphasis on reasoning provides students with a strong foundation for computer science and upper level mathematics courses

Fundamentals of Discrete Math for Computer Science Tom Jenkyns, Ben Stephenson, 2012-08-28 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.

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