Good Books On Discrete Mathematics

W. D. Wallis

Discrete Mathematics Oscar Levin,2018-07-30 Note: This is a custom edition of Levin's full Discrete Mathematics text, arranged specifically for use in a discrete math course for future elementary and middle school teachers. (It is NOT a new and updated edition of the main text.)This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this.Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs.While there are many fine discrete math textbooks available, this text has the following advantages: - It is written to be used in an inquiry rich course.- It is written to be used in a course for future math teachers.- It is open source, with low cost print editions and free electronic editions.

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.

Discrete Mathematics Oscar Levin,2025 This book aims to provide an introduction to select topics in discrete mathematics at a level appropriate for first or second year undergraduate math and computer science majors. This course serves both as a survey of the topics in discrete math and as the bridge course for math majors.

The Ultimate Guide to the Top 100 Textbooks Navneet Singh, Introduction Textbooks are the foundation of education, providing in-depth knowledge, structured learning, and essential references for students, professionals, and lifelong learners. Whether you're studying physics, mathematics, history, business, or literature, the right textbook can shape your understanding and mastery of a subject. This guide highlights 100 of the most essential textbooks, covering core academic disciplines, technical fields, and specialized subjects. Whether you're a student, educator, or self-learner, these books will equip you with the knowledge you need to succeed.

Discrete Mathematics and Applications Kevin Ferland,2017-09-19 Discrete Mathematics and Applications, Second Edition is intended for a one-semester course in discrete mathematics. Such a course is typically taken by mathematics, mathematics education, and computer science majors, usually in their sophomore year. Calculus is not a prerequisite to use this book. Part one focuses on how to write proofs, then moves on to topics in number theory, employing set theory in the process. Part two focuses on computations, combinatorics, graph theory, trees, and algorithms. Emphasizes proofs, which will appeal to a subset of this course market Links examples to exercise sets Offers edition that has been heavily reviewed and developed Focuses on graph theory Covers trees and algorithms

DISCRETE MATHEMATICS WITH APPLICATIONS. S. EPP,2022

A Student's Guide to the Study, Practice, and Tools of Modern Mathematics Donald Bindner,Martin Erickson,2010-11-29 A Student's Guide to the Study, Practice, and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics. It offers tips on how to study and write mathematics as well as how to use various mathematical tools, from LaTeX and Beamer to Mathematica and Maple to MATLAB and R. Along with a color insert, the text include

Discrete Mathematics with Applications, Metric Edition Susanna S. Epp,2019

Discrete Mathematics Kenneth A. Ross,Charles R. B. Wright,1999 This edition focuses on adding a theme of how to do proofs and picking topics that tie better into the computer science world. Also included is a new section called Office Hours which stresses how to do proofs.

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 Günter M. Ziegler has been an international success with translations into 12 languages.

A Beginner's Guide to Discrete Mathematics W. D. Wallis,2003 This introduction to discrete mathematics is aimed primarily at undergraduates in mathematics and computer science at the freshmen and sophomore levels. The text has a distinctly applied orientation and begins with a survey of number systems and elementary set theory. Included are discussions of scientific notation and the representation of numbers in computers. Lists are presented as an example of data structures. An introduction to counting includes the Binomial Theorem and mathematical induction, which serves as a starting point for a brief study of recursion. The basics of probability theory are then covered.Graph study is discussed, including Euler and Hamilton cycles and trees. This is a vehicle for some easy proofs, as well as serving as another example of a data structure. Matrices and vectors are then defined. The book concludes with an introduction to cryptography, including the RSA cryptosystem, together with the necessary elementary number theory, e.g., Euclidean algorithm, Fermat's Little Theorem.Good examples occur throughout. At the end of every section there are two problem sets of equal difficulty. However, solutions are only given to the first set. References and index conclude the work.A math course at the college level is required to handle this text. College algebra would be the most helpful.

Introduction to Algebra Peter J. Cameron,2008 This Second Edition of a classic algebra text includes updated and comprehensive introductory chapters,new material on axiom of Choice, p-groups and local rings, discussion of theory and applications, and over 300 exercises. It is an ideal introductory text for all Year 1 and 2 undergraduate students in mathematics.

Problems and Exercises in Discrete Mathematics G.P. Gavrilov,A.A. Sapozhenko,2013-03-09 Many years of practical experience in teaching discrete mathematics form the basis of this text book. Part I contains problems on such topics as Boolean algebra, k-valued logics, graphs and networks, elements of coding theory, automata theory, algorithms theory, combinatorics, Boolean minimization and logical design. The exercises are preceded by ample theoretical background

material. For further study the reader is referred to the extensive bibliography. Part II follows the same structure as Part I, and gives helpful hints and solutions. Audience:This book will be of great value to undergraduate students of discrete mathematics, whereas the more difficult exercises, which comprise about one-third of the material, will also appeal to postgraduates and researchers.

The Best Books for Academic Libraries: Science, technology, and agriculture ,2002

Essentials of Discrete Mathematics Hunter,2010-01-01

Discrete Mathematics ,2015

The Software Life Cycle Darrel Ince,Derek Andrews,2014-05-20 The Software Life Cycle deals with the software lifecycle, that is, what exactly happens when software is developed. Topics covered include aspects of software engineering, structured techniques of software development, and software project management. The use of mathematics to design and develop computer systems is also discussed. This book is comprised of 20 chapters divided into four sections and begins with an overview of software engineering and software development, paying particular attention to the birth of software engineering and the introduction of formal methods of software development. The next section explores some aspects of software engineering that tend to get ignored in the literature, including functional programming, functional-programming languages, and relational databases. The reader is then introduced to structured methods of software development, along with software project management. The final chapter is devoted to software testing, which can be functional or nonfunctional. This monograph will be useful to software engineers and designers.

Discrete Mathematics László Lovász,József Pelikán,Katalin Vesztergombi,2006-05-10 Discrete mathematics is quickly becoming one of the most important areas of mathematical research, with applications to cryptography, linear programming, coding theory and the theory of computing. This book is aimed at undergraduate mathematics and computer science students interested in developing a feeling for what mathematics is all about, where mathematics can be helpful, and what kinds of questions mathematicians work on. The authors discuss a number of selected results and methods of discrete mathematics, mostly from the areas of combinatorics and graph theory, with a little number theory, probability, and combinatorial geometry. Wherever possible, the authors use proofs and problem solving to help students understand the solutions to problems. In addition, there are numerous examples, figures and exercises spread throughout the book. Laszlo Lovasz is a Senior Researcher in the Theory Group at Microsoft Corporation. He is a recipient of the 1999 Wolf Prize andthe Godel Prize for the top paper in Computer Science. Jozsef Pelikan is Professor of Mathematics in the Department of Algebra and Number Theory at Eotvos Lorand University, Hungary. In 2002, he was elected Chairman of the Advisory Board of the International Mathematical Olympiad. Katalin Vesztergombi is Senior Lecturer in the Department of Mathematics at the University of Washington.

Discrete Mathematics for Computing Rod Haggarty,2014

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SUSQUEHANNA RIVER* YEAR ... Chapter 12 – Streams – Physical Geology Lab - UH Pressbooks This book contains exercises for a physical geology lab class. ... This stream will meet a river, and this river will flow into more rivers until it reaches a ... Appendix 3: Answers to Lab Exercises The following are suggested answers to the lab exercises for Labs 1 to 10 in A Practical Guide to Introductory Geology. Answers to the practice exercises ... GEOL107 Lab 5 Rivers Streams Groundwater - GEOL 107 GEOL107 Lab 5 Rivers Streams Groundwater · 1) identify the direction that a river would flow on a topographic map · 2) compare two rivers/streams and determine ... Appendix 3 Answers to Exercises – Physical Geology by S Earle · 2015 — Appendix 3 Answers to Exercises. (3) Answers to Exercises – Physical Geology. The following are suggested answers to the exercises embedded in the various ... Overview of Water – Introductory Physical Geology Laboratory ... Jul 14, 2020 — Discharge increases downstream in most rivers, as tributaries join the main channel and add water. Sediment load (the amount of sediment carried ... The American Way of Poverty - Books Sasha Abramsky brings the effects of economic inequality out of the shadows and, ultimately, suggests ways for moving toward a fairer and more equitable social ... The American Way of Poverty: How the Other Half Still Lives It is made up of both the long-term chronically poor and new working poor—the tens of millions of victims of a broken economy and an ever more dysfunctional ... The American Way of Poverty: How the Other Half Still Lives It is

made up of both the long-term chronically poor and new working poor—the tens of millions of victims of a broken economy and an ever more dysfunctional ... The American Way of Poverty The American Way of Poverty: How the Other Half Still Lives shines a light on this travesty. Sasha Abramsky brings the effects of economic inequality out of the ... A Discussion of Sasha Abramsky's 'The American Way ... In his new book, The American Way of Poverty: How the Other Half Still Lives, Sasha Abramsky brings the effects of economic inequality out of the shadows and, ... The American Way of Poverty by Sasha Abramsky Exploring everything from housing policy to wage protections and affordable higher education, Abramsky lays out a panoramic blueprint for a reinvigorated ... Sasha Abramsky's 'American Way of Poverty' Sep 20, 2013 — Virtually everything worthwhile written about American poverty is essentially about moral failure. It is the failure of the society ... The American Way of Poverty: How the Other Half Still Lives It is made up of both the long-term chronically poor and new working poor -- the tens of millions of victims of a broken economy and an ever more dysfunctional ... Table of Contents: The American way of poverty - Falvey Library The American way of poverty : how the other half still lives / ... "Fifty years after Michael Harrington published his groundbreaking book The Other America, in ... The American Way of Poverty: How the Other Half Still ... Aug 26, 2014 — The American Way of Poverty: How the Other Half Still Lives (Paperback). By Sasha Abramsky. $17.99. Ships to Our Store in 1-5 Days. Add to Wish ...