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DISCRETE MATHEMATICS AND ITS APPLICATIONS

McGraw-Hill **A precise, relevant, comprehensive approach to mathematical concepts...**

FUNDAMENTAL TRENDS IN FLUID-STRUCTURE INTERACTION

MATHEMATICS HIGHER LEVEL FOR THE IB DIPLOMA OPTION TOPIC 10 DISCRETE MATHEMATICS

Cambridge University Press **This title forms part of the completely new Mathematics for the IB Diploma series. This highly illustrated book covers topic 10 of the IB Diploma Higher Level Mathematics syllabus, the optional topic Discrete Mathematics. It is also for use with the further mathematics course. Based on the new group 5 aims, the progressive approach encourages cumulative learning. Features include: a dedicated chapter exclusively for mixed examination practice; plenty of worked examples; questions colour-coded according to grade; exam-style questions; feature boxes throughout of exam hints and tips.**

DISCRETE MATHEMATICAL STRUCTURES

For one/two-term, freshman/sophomore-level courses in Discrete Mathematics. More than any other book in the field, this text ties together discrete topics with a theme. Written at an appropriate level of rigor with a strong pedagogical focus it limits depth of coverage and areas covered to topics of genuine use in computer science. An emphasis on both basic theory and applications provides students with a firm foundation for more advanced courses.

DISCRETE CAUSAL THEORY

EMERGENT SPACETIME AND THE CAUSAL METRIC HYPOTHESIS

Springer This book evaluates and suggests potentially critical improvements to causal set theory, one of the best-motivated approaches to the outstanding problems of fundamental physics. Spacetime structure is of central importance to physics beyond general relativity and the standard model. The causal metric hypothesis treats causal relations as the basis of this structure. The book develops the consequences of this hypothesis under the assumption of a fundamental scale, with smooth spacetime geometry viewed as emergent. This approach resembles causal set theory, but differs in important ways; for example, the relative viewpoint, emphasizing relations between pairs of events, and relationships between pairs of histories, is central. The book culminates in a dynamical law for quantum spacetime, derived via generalized path summation.

DISCRETE MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE

Prentice Hall This text has been designed as a complete introduction to discrete mathematics, primarily for computer science majors in either a one or two semester course. The topics addressed are of genuine use in computer science, and are presented in a logically coherent fashion. The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory. For example, relations and directed graphs are treated as two aspects of the same mathematical idea. Whenever possible each new idea uses previously encountered material, and then developed in such a way that it simplifies the more complex ideas that follow.

CATALAN NUMBERS WITH APPLICATIONS

OUP USA This book presents a clear and comprehensive introduction to one of the truly fascinating topics in

mathematics: Catalan numbers. They crop up in chess, computer programming and even train tracks. In addition to lucid descriptions of the mathematics and history behind Catalan numbers, Koshy includes short biographies of the prominent mathematicians who have worked with the numbers.

DISCRETE MATHEMATICS

AN OPEN INTRODUCTION

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 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. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. 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. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

DISCRETE MATHEMATICAL STRUCTURES

Pearson Higher Ed This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Discrete Mathematical Structures, Sixth Edition, offers a clear and concise presentation of the fundamental concepts of discrete mathematics. Ideal for a one-semester introductory course, this text contains more genuine computer science applications than any other text in the field. This book is written at an appropriate level for a wide variety of majors and non-majors, and assumes a college algebra course as a prerequisite.

DISCRETE MATHEMATICS WITH APPLICATIONS

Elsevier This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern/abstract algebra and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and computation. * Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals * Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development and correctness, and numeric computations * Weaves numerous applications into the text * Helps students learn by doing with a wealth of examples and exercises: - 560 examples worked out in detail - More than 3,700 exercises - More than 150 computer assignments - More than 600 writing projects * Includes chapter summaries of important vocabulary, formulas, and properties, plus the chapter review exercises * Features interesting anecdotes and biographies of 60 mathematicians and computer scientists * Instructor's Manual available for adopters * Student Solutions Manual available separately for purchase (ISBN: 0124211828)

STUDENT SOLUTIONS GUIDE FOR DISCRETE MATHEMATICS AND ITS APPLICATIONS

McGraw-Hill Companies This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added to this third edition.

ALGORITHMIC PUZZLES

Oxford University Press While many think of algorithms as specific to computer science, at its core algorithmic thinking is defined by the use of analytical logic to solve problems. This logic extends far beyond the realm of computer science and into the wide and entertaining world of puzzles. In Algorithmic Puzzles, Anany and Maria Levitin use many classic brainteasers as well as newer examples from job interviews with major corporations to show readers how to apply analytical thinking to solve puzzles requiring well-defined procedures. The book's unique collection of puzzles is supplemented with carefully developed tutorials on algorithm design strategies and analysis techniques intended to walk the reader step-by-step through the various approaches to algorithmic problem solving. Mastery of these

strategies--exhaustive search, backtracking, and divide-and-conquer, among others--will aid the reader in solving not only the puzzles contained in this book, but also others encountered in interviews, puzzle collections, and throughout everyday life. Each of the 150 puzzles contains hints and solutions, along with commentary on the puzzle's origins and solution methods. The only book of its kind, *Algorithmic Puzzles* houses puzzles for all skill levels. Readers with only middle school mathematics will develop their algorithmic problem-solving skills through puzzles at the elementary level, while seasoned puzzle solvers will enjoy the challenge of thinking through more difficult puzzles.

DISCRETE MATHEMATICS WITH APPLICATIONS

Cengage Learning Known for its accessible, precise approach, Epp's **DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition**, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

NUMBER THEORY AND CRYPTOGRAPHY

PAPERS IN HONOR OF JOHANNES BUCHMANN ON THE OCCASION OF HIS 60TH BIRTHDAY

Springer Johannes Buchmann is internationally recognized as one of the leading figures in areas of computational number theory, cryptography and information security. He has published numerous scientific papers and books spanning a very wide spectrum of interests; besides R&D he also fulfilled lots of administrative tasks for instance building up and directing his research group CDC at Darmstadt, but he also served as the Dean of the Department of Computer Science at TU Darmstadt and then went on to become Vice President of the university for six years (2001-2007). This festschrift, published in honor of Johannes Buchmann on the occasion of his 60th birthday, contains contributions by some of his colleagues, former students and friends. The papers give an overview of Johannes Buchmann's research interests, ranging from computational number theory and the hardness of cryptographic assumptions to more application-oriented topics such as privacy and hardware security. With this book we celebrate

Johannes Buchmann's vision and achievements.

MATHEMATICS FOR MACHINE LEARNING

Cambridge University Press **Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.**

ALGORITHMS AND DATA STRUCTURES

8TH INTERNATIONAL WORKSHOP, WADS 2003, OTTAWA, ONTARIO, CANADA, JULY 30 - AUGUST 1, 2003, PROCEEDINGS

Springer **The refereed proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS 2003, held in Ottawa, Ontario, Canada, in July/August 2003. The 40 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 126 submissions. A broad variety of current aspects in algorithmics and data structures is addressed.**

MODELING AND CONTROL OF DISCRETE-EVENT DYNAMIC SYSTEMS

WITH PETRI NETS AND OTHER TOOLS

Springer Science & Business Media **Discrete-event dynamic systems (DEDS) permeate our world. They are of great importance in modern manufacturing processes, transportation and various forms of computer and communications networking. This book begins with the mathematical basics required for the study of DEDs and moves on to present various tools used in their modeling and control. Industrial examples illustrate the concepts and methods discussed, making this book an invaluable aid for students embarking on further courses in control, manufacturing engineering or computer studies.**

PROOFS FROM THE BOOK

Springer Science & Business Media **According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors candidates for such "perfect proofs," those which contain brilliant**

ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

DISCRETE MATHEMATICS

MATHEMATICAL REASONING AND PROOF WITH PUZZLES, PATTERNS, AND GAMES

John Wiley & Sons Did you know that games and puzzles have given birth to many of today's deepest mathematical subjects? Now, with Douglas Ensley and Winston Crawley's Introduction to Discrete Mathematics, you can explore mathematical writing, abstract structures, counting, discrete probability, and graph theory, through games, puzzles, patterns, magic tricks, and real-world problems. You will discover how new mathematical topics can be applied to everyday situations, learn how to work with proofs, and develop your problem-solving skills along the way. Online applications help improve your mathematical reasoning. Highly intriguing, interactive Flash-based applications illustrate key mathematical concepts and help you develop your ability to reason mathematically, solve problems, and work with proofs. Explore More icons in the text direct you to online activities at www.wiley.com/college/ensley. Improve your grade with the Student Solutions Manual. A supplementary Student Solutions Manual contains more detailed solutions to selected exercises in the text.

INNOVATIVE SECURITY SOLUTIONS FOR INFORMATION TECHNOLOGY AND COMMUNICATIONS

11TH INTERNATIONAL CONFERENCE, SECITC 2018, BUCHAREST, ROMANIA, NOVEMBER 8-9, 2018, REVISED SELECTED PAPERS

Springer This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Security for Information Technology and Communications, SecITC 2018, held in Bucharest, Romania, in November 2018. The 35 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 70 submissions. The papers present advances in the theory, design, implementation, analysis, verification, or evaluation of secure systems and algorithms.

FOUNDATIONS OF DISCRETE MATHEMATICS

New Age International **This book is meant to be more than just a text in discrete mathematics. It is a forerunner of another book applied discrete structures by the same author. The ultimate goal of the two books are to make a strong case for the inclusion of discrete mathematics in the undergraduate curricula of mathematics by creating a sequence of courses in discrete mathematics parallel to the traditional sequence of calculus-based courses. The present book covers the foundations of discrete mathematics in seven chapters. It lays a heavy emphasis on motivation and attempts clarity without sacrificing rigour. A list of typical problems is given in the first chapter. These problems are used throughout the book to motivate various concepts. A review of logic is included to gear the reader into a proper frame of mind. The basic counting techniques are covered in chapters 2 and 7. Those in chapter 2 are elementary. But they are intentionally covered in a formal manner so as to acquaint the reader with the traditional definition-theorem-proof pattern of mathematics. Chapter 3 introduces abstraction and shows how the focal point of today's mathematics is not numbers but sets carrying suitable structures. Chapter 4 deals with Boolean algebras and their applications. Chapters 5 and 6 deal with more traditional topics in algebra, viz., groups, rings, fields, vector spaces and matrices. The presentation is elementary and presupposes no mathematical maturity on the part of the reader. Instead, comments are inserted liberally to increase his maturity. Each chapter has four sections. Each section is followed by exercises (of various degrees of difficulty) and by notes and guide to literature. Answers to the exercises are provided at the end of the book.**

MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE

Macmillan **This edition offers a pedagogically rich and intuitive introduction to discrete mathematics structures. It meets the needs of computer science majors by being both comprehensive and accessible.**

DISCRETE MATHEMATICS AND ITS APPLICATIONS WITH MATHZONE

McGraw-Hill Science, Engineering & Mathematics **Intended for one- or two-term introductory discrete mathematics courses, this text gives a focused introduction to the primary themes in a discrete mathematics course and demonstrates the relevance and practicality of discrete mathematics to a variety of real-world applications...from computer science to data networking, to psychology, and others.**

A BEGINNER'S GUIDE TO DISCRETE MATHEMATICS

[Springer Science & Business Media](#) **This introduction to discrete mathematics is aimed at freshmen and sophomores in mathematics and computer science. It begins with a survey of number systems and elementary set theory before moving on to treat data structures, counting, probability, relations and functions, graph theory, matrices, number theory and cryptography. The end of each section contains problem sets with selected solutions, and good examples occur throughout the text.**

SAFETY, RELIABILITY, RISK AND LIFE-CYCLE PERFORMANCE OF STRUCTURES AND INFRASTRUCTURES

[CRC Press](#) **Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY (ICOSSAR2013, New York, NY, USA, 16-20 June 2013), and covers major aspects of safety, reliability, risk and life-cycle performance of str**

NONLINEAR DYNAMICS OF DISCRETE AND CONTINUOUS SYSTEMS

[Springer Nature](#) **This book commemorates the 60th birthday of Dr. Wim van Horssen, a specialist in nonlinear dynamic and wave processes in solids, fluids and structures. In honor of Dr. Horssen's contributions to the field, it presents papers discussing topics such as the current problems of the theory of nonlinear dynamic processes in continua and structures; applications, including discrete and continuous dynamic models of structures and media; and problems of asymptotic approaches.**

MATHEMATICAL MODELS IN POPULATION BIOLOGY AND EPIDEMIOLOGY

[Springer Science & Business Media](#) **The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions on population biology. Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past. Single population models are, in some sense, the building blocks of more realistic models -- the subject of Part II. Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity -- the subject of Part III. This book, which will include both examples**

and exercises, is of use to practitioners, graduate students, and scientists working in the field.

DISCRETE MATHEMATICS AND STRUCTURES

Laxmi Publications, Ltd. **The Fifth Edition Of The Book 'Discrete Mathematics And Structures' Is An Outcome Of Author'S Continuous Discussions With His Colleagues And Students. Unlike Other Books, This Book Helps The Readers To Develop Mathematical Maturity And Understand The Basic Concepts Of Discrete Mathematics And Structures. Extensive In Its Coverage, Each New Concept Is Gently Introduced And Then Reinforced By A Lot Of Solved Examples. Questions From Various Examinations Have Been Incorporated To Enable The Students To Understand The Latest Trends In Paper-Setting.**

DISCRETE MATHEMATICS

PROOFS, STRUCTURES AND APPLICATIONS, THIRD EDITION

Taylor & Francis **Taking an approach to the subject that is suitable for a broad readership, Discrete Mathematics: Proofs, Structures, and Applications, Third Edition provides a rigorous yet accessible exposition of discrete mathematics, including the core mathematical foundation of computer science. The approach is comprehensive yet maintains an easy-to-follow progression from the basic mathematical ideas to the more sophisticated concepts examined later in the book. This edition preserves the philosophy of its predecessors while updating and revising some of the content. New to the Third Edition In the expanded first chapter, the text includes a new section on the formal proof of the validity of arguments in propositional logic before moving on to predicate logic. This edition also contains a new chapter on elementary number theory and congruences. This chapter explores groups that arise in modular arithmetic and RSA encryption, a widely used public key encryption scheme that enables practical and secure means of encrypting data. This third edition also offers a detailed solutions manual for qualifying instructors. Exploring the relationship between mathematics and computer science, this text continues to provide a secure grounding in the theory of discrete mathematics and to augment the theoretical foundation with salient applications. It is designed to help readers develop the rigorous logical thinking required to adapt to the demands of the ever-evolving discipline of computer science.**

SECURITY SOLUTIONS AND APPLIED CRYPTOGRAPHY IN SMART GRID COMMUNICATIONS

IGI Global Electrical energy usage is increasing every year due to population growth and new forms of consumption. As such, it is increasingly imperative to research methods of energy control and safe use. Security Solutions and Applied Cryptography in Smart Grid Communications is a pivotal reference source for the latest research on the development of smart grid technology and best practices of utilization. Featuring extensive coverage across a range of relevant perspectives and topics, such as threat detection, authentication, and intrusion detection, this book is ideally designed for academicians, researchers, engineers and students seeking current research on ways in which to implement smart grid platforms all over the globe.

APPLIED DISCRETE STRUCTURES

Lulu.com

DISCRETE MATHEMATICS AND APPLICATIONS, SECOND EDITION

CRC Press This book 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.

DISCRETE MATHEMATICS

FOR NEW TECHNOLOGY

CRC Press In a comprehensive yet easy-to-follow manner, Discrete Mathematics for New Technology follows the progression from the basic mathematical concepts covered by the GCSE in the UK and by high-school algebra in the USA to the more sophisticated mathematical concepts examined in the latter stages of the book. The book punctuates the rigorous treatment of theory with frequent uses of pertinent examples and exercises, enabling readers to achieve a feel for the subject at hand. The exercise hints and solutions are provided at the end of the book. Topics covered include logic and the nature of mathematical proof, set theory, relations and functions, matrices and systems of linear

equations, algebraic structures, Boolean algebras, and a thorough treatise on graph theory. Although aimed primarily at computer science students, the structured development of the mathematics enables this text to be used by undergraduate mathematicians, scientists, and others who require an understanding of discrete mathematics.

CONTINUOUS-TIME RANDOM WALKS FOR THE NUMERICAL SOLUTION OF STOCHASTIC DIFFERENTIAL EQUATIONS

American Mathematical Soc. This paper introduces time-continuous numerical schemes to simulate stochastic differential equations (SDEs) arising in mathematical finance, population dynamics, chemical kinetics, epidemiology, biophysics, and polymeric fluids. These schemes are obtained by spatially discretizing the Kolmogorov equation associated with the SDE in such a way that the resulting semi-discrete equation generates a Markov jump process that can be realized exactly using a Monte Carlo method. In this construction the jump size of the approximation can be bounded uniformly in space, which often guarantees that the schemes are numerically stable for both finite and long time simulation of SDEs.

DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Brooks/Cole Publishing Company 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.

FOUNDATIONS OF DISCRETE MATHEMATICS

INTRODUCTORY DISCRETE MATHEMATICS

Courier Corporation This concise, undergraduate-level text focuses on combinatorics, graph theory with applications to some standard network optimization problems, and algorithms. Geared toward mathematics and computer science majors, it emphasizes applications, offering more than 200 exercises to help students test their grasp of the material

and providing answers to selected exercises. 1991 edition.

THE RADON TRANSFORM

THE FIRST 100 YEARS AND BEYOND

Walter de Gruyter GmbH & Co KG In 1917, Johann Radon published his fundamental work, where he introduced what is now called the Radon transform. Including important contributions by several experts, this book reports on ground-breaking developments related to the Radon transform throughout these years, and also discusses novel mathematical research topics and applications for the next century.

NONLINEAR FINITE ELEMENTS FOR CONTINUA AND STRUCTURES

John Wiley & Sons This updated and expanded edition of the bestselling textbook provides a comprehensive introduction to the methods and theory of nonlinear finite element analysis. New material provides a concise introduction to some of the cutting-edge methods that have evolved in recent years in the field of nonlinear finite element modeling, and includes the eXtended finite element method (XFEM), multiresolution continuum theory for multiscale microstructures, and dislocation-density-based crystalline plasticity. Nonlinear Finite Elements for Continua and Structures, Second Edition focuses on the formulation and solution of discrete equations for various classes of problems that are of principal interest in applications to solid and structural mechanics. Topics covered include the discretization by finite elements of continua in one dimension and in multi-dimensions; the formulation of constitutive equations for nonlinear materials and large deformations; procedures for the solution of the discrete equations, including considerations of both numerical and multiscale physical instabilities; and the treatment of structural and contact-impact problems. Key features: Presents a detailed and rigorous treatment of nonlinear solid mechanics and how it can be implemented in finite element analysis Covers many of the material laws used in today's software and research Introduces advanced topics in nonlinear finite element modelling of continua Introduction of multiresolution continuum theory and XFEM Accompanied by a website hosting a solution manual and MATLAB® and FORTRAN code Nonlinear Finite Elements for Continua and Structures, Second Edition is a must have textbook for graduate students in mechanical engineering, civil engineering, applied mathematics, engineering mechanics, and materials science, and is also an excellent source of information for researchers and practitioners in industry.

DISCRETE AND COMBINATORIAL MATHEMATICS, 5/E

Pearson Education India