Boolean Algebra In Discrete Mathematics

Applied Discrete Structures - Part 2- Algebraic StructuresFundamental Structures of Algebra and Discrete MathematicsDiscrete Mathematics and Algebraic StructuresADVANCED DISCRETE MATHEMATICSDiscrete Mathematical StructuresDiscrete Mathematics: Applied Algebra for Computer and Information ScienceApplication-oriented AlgebraGeneral Algebra and Discrete MathematicsElements of Discrete MathematicsDiscrete MathematicsDiscrete Mathematics for Computer ScienceA Beginner’s Guide to Discrete MathematicsDiscrete Mathematics for New Technology, Second EditionProblems and Exercises in Discrete MathematicsFoundations of Discrete MathematicsDiscrete Mathematics and Applied Modern AlgebraDiscrete MathematicsAdvance Discrete StructureDiscrete Mathematics with ApplicationsDiscrete Mathematics Ken Levasseur Stephan Foldes Larry J. Gerstein UDAY SINGH RAJPUT G Shanker Rao Leonard S. Bobrow James Louis Fisher Klaus Denecke Chung Laung Liu Iyengar, N.Ch. S.N./Chandrasekaran V.M./Venkalesh K.A. & Arunachalam P.S. Jon Pierre Fortney W. D. Wallis Rowan Garnier G.P. Gavrilov K. D. Joshi Henry B. Laufer Sriraman Sridharan C. B. Gupta Thomas Koshy Krishna R. Kumar
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applied discrete structures part ii algebraic structures is an introduction to groups monoids vector spaces lattices boolean algebras rings and fields it corresponds with the content of discrete structures ii at umass lowell which is a required course for students in computer science it presumes background

contained in part i fundamentals applied discrete structures has been approved by the american institute of mathematics as part of their open textbook initiative for more information on open textbooks visit aimath org textbooks this version was created using mathbook xml mathbook pugetsound edu al doerr is emeritus professor of mathematical sciences at umass lowell his interests include abstract algebra and discrete mathematics ken levasseur is a professor of mathematical sciences at umass lowell his interests include discrete mathematics and abstract algebra and their implementation using computer algebra systems

introduces and clarifies the basic theories of 12 structural concepts offering a fundamental theory of groups rings and other algebraic structures identifies essentials and describes interrelationships between particular theories selected classical theorems and results relevant to current research are proved rigorously within the theory of each structure throughout the text the reader is frequently prompted to perform integrated exercises of verification and to explore examples

provides a brief but substantial introduction to ideas structures and techniques in discrete mathematics and abstract algebra it addresses many of the common mathematical needs of students in mathematics and computer science at undergraduate level

written in an accessible style this text provides a complete coverage of discrete mathematics and its applications at an appropriate level of rigour the book discusses algebraic structures mathematical logic lattices boolean algebra graph theory automata theory grammars and recurrence relations it covers the important topics such as coding theory dijkstra s shortest path algorithm reverse polish notation warshall s algorithm menger s theorem turing machine and lr k parsers which form a part of the fundamental applications of discrete mathematics in computer science in addition pigeonhole principle ring homomorphism field and integral domain trees network flows languages and recurrence relations the text is supported with a large number of examples worked out problems and diagrams that help students understand the theoretical explanations the book is intended as a text for postgraduate students of mathematics computer science and computer applications in addition it will be extremely useful for the undergraduate students of computer science and engineering

this text can be used by the students of mathematics or computer science as an introduction to the fundamentals of discrete mathematics the book is designed in accordance with the syllabi of be b tech bca mca and m sc computer science prescribed in most of the universities this book offers the following topics mathematical logic sets relations recurrence relations functions combinations boolean algebra logic gates graph theory algebraic structures and finite state machines each chapter is supplemented with a number of worked examples as

well as a number of problems to be solved by the students this would help in a better understanding of the subject

student friendly and comprehensive this book covers topics such as mathematical logic set theory algebraic systems boolean algebra and graph theory that are essential to the study of computer science in great detail

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

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

updated and expanded discrete mathematics for new technology second edition provides a sympathetic and accessible introduction to discrete mathematics including the core mathematics requirements for undergraduate computer science students the approach is comprehensive yet maintains an easy to follow progression from the basic mathematical ideas to the more sophisticated concepts examined in the latter stages of the book although the theory is presented rigorously it is illustrated by the frequent use of pertinent examples and is further reinforced with exercises some with hints and solutions to enable the reader to achieve a comprehensive understanding of the subject at hand new to the second edition numerous new examples and exercises designed to illustrate and reinforce mathematical concepts and facilitate students progression through the topics new sections on typed set theory and an introduction to formal specification presenting material that is at the foundations of mathematics itself discrete mathematics for new technology is a readable friendly textbook designed for non mathematicians as well as for computing and mathematics undergraduates alike

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

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 chapters 3 introduces abstraction and shows how the focal point of todays 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

conveying ideas in a user friendly style this book has been designed for a course in applied algebra the book covers graph algorithms basic algebraic structures coding theory and cryptography it will be most suited for senior undergraduates and beginning graduate students in mathematics and computer science as also to individuals who want to have a knowledge of the below mentioned topics provides a complete discussion on several graph algorithms such as prims algorithm and kruskals algorithm for sending a minimum cost spanning tree in a weighted graph dijkstras single source shortest path algorithm floyds algorithm warshalls algorithm kuhn munkres algorithm in addition to dfs and bfs search several applications of dfs and bfs are also discussed presents a good introduction to the basic algebraic structures namely matrices groups rings fields including finite fields as also a discussion on vector spaces and linear equations and their solutions provides an introduction to linear codes including cyclic codes presents a description of private key cryptosystems as also a discussion on public key cryptosystems such as rsa elgamal and miller rabin finally the agrawal kayalsaxena algorithm aks algorithm for testing if a given positive integer is prime or not in polynomial time is presented the first time in a textbook two distinguished features of the book are illustrative examples have been presented throughout the book to make the readers appreciate the concepts described answers to all even numbered exercises in all the chapters are given

advance discrete structure is a compulsory paper in most of computing programs m tech mca m sc b tech bca b sc etc this book has been written to fulfill the requirements of graduate and post graduate students pursuing courses in mathematics as w

this approachable text studies discrete objects and the relationsips 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

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