

MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE

DISCRETE MATHEMATICS
AND ITS APPLICATIONS
SEVENTH EDITION

JUDITH L. GERSTING

Mathematical Structures For Computer Science

AW Chickering



Mathematical Structures For Computer Science:

Mathematical Structures for Computer Science Judith L. Gersting, 2007 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 Mathematical Structures for Computer Science Bernard Kolman, Robert C. Busby, 1987 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

Discrete Mathematical Structures with Applications to Computer Science Jean-Paul Tremblay, R. Manohar, 1987

Discrete mathematical structures for computer science Ronald E. Prather, 1976-01-01

Mathematical Structures in Computer Science M Barr, 1999

Mathematical Structures For Computer Science J.L. Gersting,

Solutions Manual for Mathematical Structures for Computer Science Judith L. Gersting, 1982

Discrete Mathematical Structures for Computer Science Bernard Kolman, Robert C. Busby, 1987

Elements of discrete mathematical structures in computer science, 2007

Solutions Manual for Mathematical Structures for Computer Science, Second Edition Judith L. Gersting, 1987

Mathematical Structures for Computer Graphics Steven J. Janke, 2014-11-03 A comprehensive exploration of the mathematics behind the modeling and rendering of computer graphics scenes *Mathematical Structures for Computer Graphics* presents an accessible and intuitive approach to the mathematical ideas and techniques necessary for two and three dimensional computer graphics Focusing on the significant mathematical results the book establishes key algorithms used to build complex graphics scenes Written for readers with various levels of mathematical background the book develops a solid foundation for graphics techniques and fills in relevant graphics details often overlooked in the literature Rather than use a rigid theorem proof approach the book provides a flexible discussion that moves from vector geometry through transformations curve modeling visibility and lighting models *Mathematical Structures for Computer Graphics* also includes Numerous examples of two and three dimensional techniques along with numerical calculations Plenty of mathematical and programming exercises in each chapter which are designed particularly for graphics tasks Additional details at the end of each chapter covering historical notes further calculations and connected concepts for readers who wish to delve deeper Unique coverage of topics such as calculations with homogeneous coordinates computational geometry for polygons use of barycentric coordinates various descriptions for curves and L system techniques for recursive images *Mathematical Structures for Computer Graphics* is an excellent textbook for undergraduate courses in computer science mathematics and engineering as well as an ideal reference

for practicing engineers researchers and professionals in computer graphics fields The book is also useful for those readers who wish to understand algorithms for producing their own interesting computer images *Mathematical Structures in Computer Science* M Barr,2000 *Discrete mathematical structures in computer science* Margarita Carmen S. Paterno,2003 **Discrete Mathematical Structures** Bernard Kolman,Robert C. Busby,Sharon Cutler Ross,1996 This is the only discrete math text that has a thread holding the various topics together One of the shortest books on the market New to this edition stronger coverage of logic graphs and trees Also includes special student projects **Mathematics of Discrete Structures for Computer Science** Gordon J. Pace,2012-07-09 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering

Categories for the Working Philosopher Elaine Landry,2017-11-17 Often people have wondered why there is no introductory text on category theory aimed at philosophers working in related areas The answer is simple what makes categories interesting and significant is their specific use for specific purposes These uses and purposes however vary over many areas both pure e g mathematical foundational and logical and applied e g applied to physics biology and the nature and structure of mathematical models Borrowing from the title of Saunders Mac Lane s seminal work *Categories for the Working Mathematician* this book aims to bring the concepts of category theory to philosophers working in areas ranging from mathematics to proof theory to computer science to ontology from to physics to biology to cognition from mathematical modeling to the structure of scientific theories to the structure of the world Moreover it aims to do this in a way that is accessible to non specialists Each chapter is written by either a category theorist or a philosopher working in one of the represented areas and in a way that builds on the concepts that are already familiar to philosophers working in these areas

Discrete Mathematical Structures for Computer Scientists and Engineers M. K. Das,2007 Discrete Mathematical

Structures provides an introductory mathematical foundation for further advanced study in data structures algorithms compilers and theory of computation

The Nitty-Gritty in the Life of a University William J. Adams, 2007 An esteemed professor and one time chairman of the mathematics department at New York's Pace University Adams interested in all facets of university administration has produced an almost Jeffersonian volume of correspondence from his tenure His views on textbook selection collective bargaining and the proper role of the university have all flowed from his notebook and no problem was too minute to evade his scope The frivolity of some of these papers is balanced by Adams's opinions on weightier issues including sexual harassment and compensation in higher education His approach and forward manner on these situations despite how genuine sometimes engendered resentment from his fellow faculty But for those interested in the particulars of an academic career this book offers a glimpse of what life may really be like inside the ivory tower Kirkus Discoveries

Algebra, Meaning, and Computation Kokichi Futatsugi, Jean-Pierre Jouannaud, José Meseguer, 2006-06-21 This volume honoring the computer science pioneer Joseph Goguen on his 65th Birthday includes 32 refereed papers by leading researchers in areas spanned by Goguen's work The papers address a variety of topics from meaning meta logic specification and composition behavior and formal languages as well as models deduction and computation by key members of the research community in computer science and other fields connected with Joseph Goguen's work

Discrete Mathematical Algorithm, and Data Structures Sanjib Sinha, 2020-05-28 Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming languages such as C C++ PHP Java C# Python and Dart This book combines two major components of Mathematics and Computer Science under one roof Without the core conceptions and tools derived from discrete mathematics one cannot understand the abstract or the general idea involving algorithm and data structures in Computer Science The objects of data structures are basically objects of discrete mathematics This book tries to bridge the gap between two major components of Mathematics and Computer Science In any computer science course studying discrete mathematics is essential although they are taught separately except in a few cases Yet a comprehensive book combining these two major components is hard to find out not only that it is almost impossible to understand one without the help of other Hope this book will fill the gap Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming language such as C Java C# Python and Dart

1 Introduction to the Discourse Is Discrete Mathematics enough to study Computer Science A short Introduction to Discrete Mathematics What is Discrete Mathematics What is the relationship between Discrete Mathematics and Computer Science Introducing necessary conceptions 2 Introduction to Programming Language and Boolean Algebra Logic Mathematics and Programming Language Introduction to Boolean Algebra 3 De Morgan's Laws on Boolean Algebra Logical Expression and Algorithm Logical Expression Short Circuit Evaluation Syntax Semantics and Conditional Execution Why we need Control Constructs Discrete Mathematical Notations and Algorithm 4

Data Structures in different Programming languages Mean Median and Mode Array the First Step to Data Structure Let us understand some Array features Set Theory Probability and Array Skewed Mean Maximized Median Complex Array Algorithm 5 Data Structures Abstractions and Implementation How objects work with each other More Algorithm and Time Complexity Introducing Data Structures How Calculus and Linear Algebra are Related to this Discourse 6 Data Structures in Detail Frequently Asked Questions about Data Structures Abstract Data Type ADT Linear Data Structures Modeling of a Structure ArrayList to overcome limitations of Array ArrayList or LinkedList which is faster Collection Framework in programming languages Stack and Queue in Java Deque a high performance Abstract Data Type 7 Algorithm Data Structure Collection Framework and Standard Template Library STL Introducing Algorithm Library Different types of Algorithms Binary Tree and Data Structure Collection Framework in Java Discrete Mathematical Abstractions and Implementation through Java Collection Comparator Comparable and Iterator Standard Template Library in C 8 Time Complexity Order of n or $O(n)$ Big O Notation 9 Set Symmetric Difference and Propositional Logic Why Set is important in Data Structures How Symmetric Difference and Propositional Logic combine 10 Combinatorics and Counting Permutation and Combinations Permutation and Combination What Next

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