

MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE

DISCRETE MATHEMATICS
AND ITS APPLICATIONS
SEVENTH EDITION

JUDITH L. GERSTING

Mathematical Structures For Computer Science

Bernard Kolman, Robert C. Busby



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

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who wish to understand algorithms for producing their own interesting computer images

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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

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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 *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 Structures G. Shanker Rao,2007-12-31 About the Book This text can be used by the students of mathematics and computer science as an introduction to the fundamentals of discrete mathematics The book is designed in accordance with the syllabi of B E B Tech MCA and M Sc Computer Science prescribed in most of the universities of India Each chapter is supplemented with a number of worked example as well as a number of problems to be solved by the students This would help in a better understanding of the subject Contents Mathematical Logic Set Theory Relations Functions and Recurrence Relations Boolean Algebra Logic Gates Elementary Combinatorics Graph Theory Algebraic Structures Finite State Machines Discrete Mathematical Structures B. V. Senthil Kumar, Hemen Dutta,2019-07-08 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily The concepts of discrete mathematical structures have application to computer science engineering and information technology including in coding techniques switching circuits pointers and linked allocation error corrections as well as in data networking Chemistry Biology and many other scientific areas The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics Computer Science Engineering and Information Technology The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities Readers will find solved examples and end of chapter exercises to enhance reader comprehension Features Offers comprehensive coverage of basic ideas of Logic Mathematical Induction Graph Theory Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures

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Table of Contents Mathematical Structures For Computer Science

1. Understanding the eBook Mathematical Structures For Computer Science
 - The Rise of Digital Reading Mathematical Structures For Computer Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Structures For Computer Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Structures For Computer Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Structures For Computer Science
 - Personalized Recommendations
 - Mathematical Structures For Computer Science User Reviews and Ratings
 - Mathematical Structures For Computer Science and Bestseller Lists
5. Accessing Mathematical Structures For Computer Science Free and Paid eBooks
 - Mathematical Structures For Computer Science Public Domain eBooks
 - Mathematical Structures For Computer Science eBook Subscription Services

- Mathematical Structures For Computer Science Budget-Friendly Options
- 6. Navigating Mathematical Structures For Computer Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Structures For Computer Science Compatibility with Devices
 - Mathematical Structures For Computer Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Structures For Computer Science
 - Highlighting and Note-Taking Mathematical Structures For Computer Science
 - Interactive Elements Mathematical Structures For Computer Science
- 8. Staying Engaged with Mathematical Structures For Computer Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Structures For Computer Science
- 9. Balancing eBooks and Physical Books Mathematical Structures For Computer Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Structures For Computer Science
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Structures For Computer Science
 - Setting Reading Goals Mathematical Structures For Computer Science
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Structures For Computer Science
 - Fact-Checking eBook Content of Mathematical Structures For Computer Science
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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