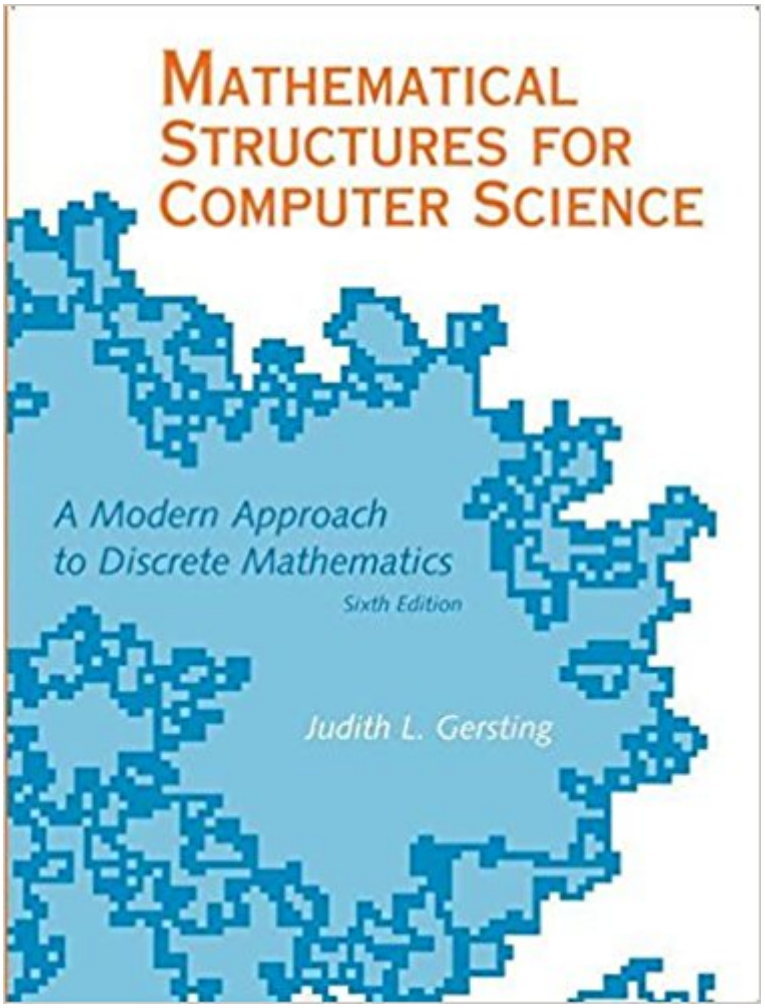
# Mathematical Structures For Computer Science



## Synopsis

Computing Curricula 2001 (CC2001), a joint undertaking of the Institute for Electrical and Electronic Engineers/Computer Society (IEEE/CS) and the Association for Computing Machinery (ACM), identifies the essential material for an undergraduate degree in computer science.This Sixth Edition of Mathematical Structures for Computer Science covers all the topics in the CC2001 suggested curriculumÃ Â for a one-semester intensive discrete structures course, and virtually everything suggested for a two-semester version of a discrete structures course. Gersting's text binds together what otherwise appears to be a collection of disjointed topics by emphasizing the following themes: Ã¢â ¬Â¢ Importance of logical thinkingÃ¢â ¬Â¢ Power of mathematical notationÃ¢â ¬Â¢ Usefulness of abstractions

## Book Information

Hardcover: 784 pages
Publisher: W. H. Freeman; 6 edition (July 7, 2006)
Language: English
ISBN-10: 071676864X
ISBN-13: 978-0716768647
Product Dimensions: 8 x 1.4 x 10.2 inches
Shipping Weight: 3.7 pounds
Average Customer Review: 3.5 out of 5 stars 50 customer reviews
Best Sellers Rank: #143,230 in Books (See Top 100 in Books) #17 inÃ Â Books > Science & Math > Mathematics > Applied > Linear Programming #63 inÃ Â Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics #934 inÃ Â Books > Computers & Technology > Computer Science

## Customer Reviews

JUDITH L. GERSTING is at the University of Hawaii, Hilo, USA.

I can appreciate the explanations in proper mathematical jargon. It is to help you to learn to understand the jargon. Like reading ShakespeareHOWEVERThe examples in this book are much easier than the problems in the section problems. There are some concepts found in the section problem sets are not actually covered in the section. I had to look on the web for an explanation that made sense.Note the the author: Some of us taking Discrete Math are often not math whizzes. Please give a more layman's explanation in addition to the proper mathematical description.If you

are looking for a book to learn Discrete Math on you own this book is NOT for you.

I used this book for an undergraduate course in Discrete Mathematics. I'd say that the book tended to confuse more than clarify, at least in its initial explanation of things. Working through the example problems often helped correct that, though. My professor thought the author was pretty ambitious to be aimed at undergrads and ended up skipping most of the material on Turing machines; he also skipped the material on Probability because our computer science students must take a Prob & Stats course; otherwise, he stuck very closely to the book.I felt the book was structured well in that new chapters often built upon previous ones. The chapters on Formal Logic and Proof Techniques were long and detailed, but have since helped with my programming assignments. The chapters on Sets, Relations, Graphs, Trees, and Algorithms were the most valuable since they directly relate to my courses in Databases and Analysis of Algorithms.The book helped but I feel that my professor is what really made it work for me. The book isn't bad, but it's not great either; if anything, it's "alright."

Good

Perfect

God bless teachers who use old editions

Good-natured writer, but assumes a bit too much of the reader. This book is best used for a college course with a teacher in order to fully comprehend the topics presented.

This book definitely needs a teacher who thoroughly understands the material. Should not be used as a self teaching tool. Instead of every other exercise question having an answer in the back of the book, only a few starred ones are available in each section. Also, each lesson and practice problems don't cover all the areas in the exercises. There will be some exercises for which there are no examples in the book, including symbology not explained in the book.

This book truly has awful organization and poor examples.

Combinatorics: With Applications in Computer Science (Texts in Theoretical Computer Science. An EATCS Series) Computer Science for the Curious: Why Study Computer Science? (The Stuck Student's Guide to Picking the Best College Major and Career) Fundamentals of Discrete Math for Computer Science: A Problem-Solving Primer (Undergraduate Topics in Computer Science) Mathematical Logic for Computer Science Mathematical Economics (Dover Books on Computer Science) Computer Vision: Algorithms and Applications (Texts in Computer Science) Mathematics and Computer Science in Medical Imaging (Nato a S I Series Series III, Computer and Systems Sciences) Starting Out with Java: From Control Structures through Data Structures (3rd Edition) Design and Analysis of Composite Structures: With Applications to Aerospace Structures Introduction to Structures (Architect's Guidebooks to Structures) Anatomy of Orofacial Structures - Enhanced Edition: A Comprehensive Approach, 7e (Anatomy of Orofacial Structures (Brand)) Anatomy of Orofacial Structures, 7e (Anatomy of Orofacial Structures (Brand)) Java Software Structures: Designing and Using Data Structures (4th Edition) Introduction to Mathematical Structures and Proofs (Undergraduate Texts in Mathematics) Discrete Mathematical Structures (Classic Version) (6th Edition) (Pearson Modern Classics for Advanced Mathematics Series) Discrete Mathematical Structures (6th Edition) Mathematical Interest Theory (Mathematical Association of America Textbooks) The Mathematical Theory of Non-uniform Gases: An Account of the Kinetic Theory of Viscosity, Thermal Conduction and Diffusion in Gases (Cambridge Mathematical Library)