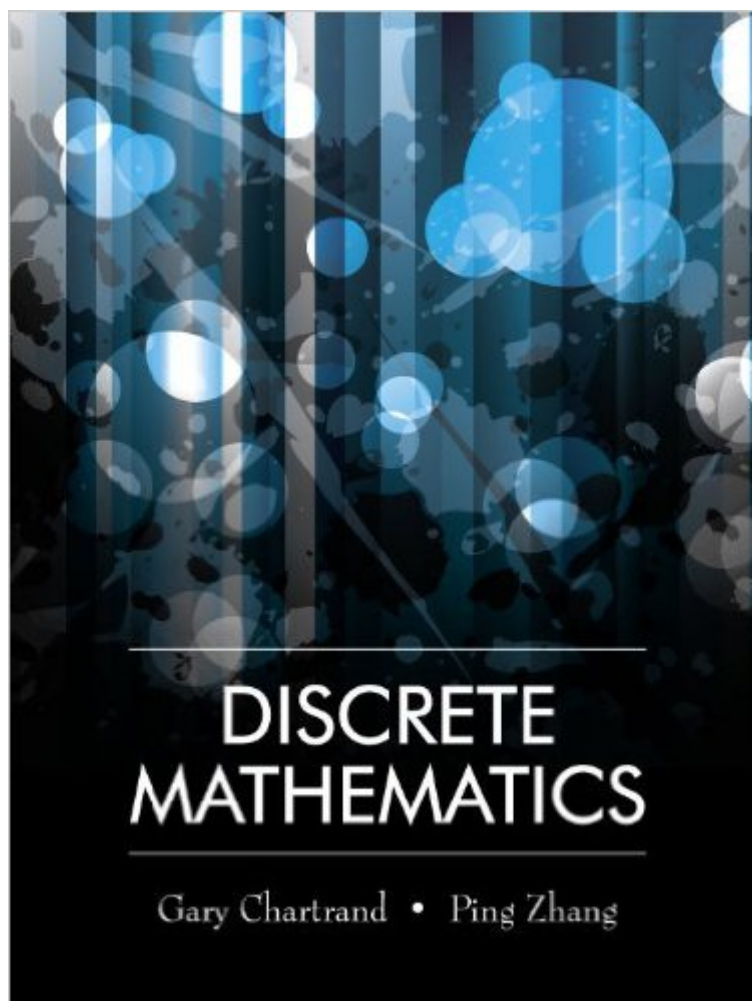


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# Discrete Mathematics



## Synopsis

Chartrand and Zhang's Discrete Mathematics presents a clearly written, student-friendly introduction to discrete mathematics. The authors draw from their background as researchers and educators to offer lucid discussions and descriptions fundamental to the subject of discrete mathematics. Unique among discrete mathematics textbooks for its treatment of proof techniques and graph theory, topics discussed also include logic, relations and functions (especially equivalence relations and objective functions), algorithms and analysis of algorithms, introduction to number theory, combinatorics (counting, the Pascal triangle, and the binomial theorem), discrete probability, partially ordered sets, lattices and Boolean algebras, cryptography, and finite-state machines. This highly versatile text provides mathematical background used in a wide variety of disciplines, including mathematics and mathematics education, computer science, biology, chemistry, engineering, communications, and business. Some of the major features and strengths of this textbook: Numerous carefully explained examples and applications facilitate learning, More than 1,600 exercises, ranging from elementary to challenging, are included with hints/answers to all odd-numbered exercises, Descriptions of proof techniques are accessible and lively, Students benefit from the historical discussions throughout the textbook, An Instructor's Solutions Manual contains complete solutions to all exercises. Table of Contents: 0. What Is Discrete Mathematics? 1. Logic Statements 2. Sets 3. Methods of Proof 4. Mathematical Induction 5. Relations and Functions 6. Algorithms and Complexity 7. Integers 8. Introduction to Counting 9. Advanced Counting Methods 10. Discrete Probability 11. Partially Ordered Sets and Boolean Algebra 12. Introduction to Graphs 13. Trees 14. Planar Graphs and Graph Colorings Title of related interest also available from Waveland Press: Molluzzo-Buckley, A First Course in Discrete Mathematics (ISBN 9780881339406).

## Book Information

Hardcover: 671 pages

Publisher: Waveland Pr Inc; 1 edition (March 20, 2011)

Language: English

ISBN-10: 1577667301

ISBN-13: 978-1577667308

Product Dimensions: 1.5 x 8 x 10 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 11 customer reviews

Best Sellers Rank: #205,089 in Books (See Top 100 in Books) #83 in Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics #2847 in Books > Textbooks > Science & Mathematics > Mathematics

## Customer Reviews

• This is an excellent Discrete Math book! Excellent choice of topics, right amount of examples and exercises. The topics flow smoothly. Clear exposition and pace! • Brian Kreeger, North Hennepin Community College

• I have decided to use Chartrand and Zhang's discrete math text in the fall semester. I am a fan of their books. I've been waiting for their discrete math text to be published and am looking forward to using it in the fall! • Kathleen McKeon, Connecticut College

I don't know why, but most text books on discrete math are pure garbage. This book seems very readable, I am using it to supplement the text currently being used in our class. I feel a lot more confident now that I have some real words that describe the lesson we're working on. I have not fully picked over this book yet, so it may have some gotcha I have not seen yet, but so far I really am happy I picked this up. I spent most of the semester in a panic. The only thing that might approach a complaint, is that it is missing many of the algorithms we're covering in class. Not a huge deal, but maybe room for improvement?

Pros:-concrete examples-accessible writing style-many practice problems-cheaper than many other textbooks  
Cons:-no colors in the book (which makes me sleepy)-sometimes the proofs are too concise, making things hard to understand-yet sometimes the proofs are unnecessarily wordy  
Overall, I recommend this book if you are studying discrete math for the first time or if you need a refresher. If you need a reference book then maybe some other book is better.

Good content but somewhat hard to follow the authors at points.

Exactly what I was looking for

This book takes you from the ground up, starting with the basic composition of statements, and logic. It then moves into other topics such as sets, methods of proof, induction, relations and

functions, graphs, trees, etc. I used this book as my first introduction to "discrete mathematics", having no background whatsoever of the topics covered. I found it to give very clear and lucid explanations and example problems that were easy to follow and geared towards a beginner of the subject matter covered. highly recommended as an introduction to the topics covered and as a self study book.

Very satisfied with this book, I really recommend it.

In my former career as a Research Physicist, I was very comfortable with continuous mathematics i.e. real numbers, calculus, PDE etc. In my current career as a software engineer / computer scientist I wanted a deeper appreciation for the algorithms, I was developing and reading about, a better feel for the mathematics underlying computer science. After surveying a number of texts - I was extremely fortunate to have found Gary Chartrand's Discrete Mathematics. Over the course of 4 months I consistently (~750 pomodoros) worked through this book, making notes, doing exercises and applying the insights into my own work. The book itself is fun to read, Chartrand, has done an excellent job, in explaining sometimes complex concepts and making them accessible to the reader. The book is extremely well written - I found myself saying wow! a few times whilst reading the book. Most importantly the book has given me such a solid foundation in my career as a software engineer, helped me breeze through various Coursera courses, and increased my appreciation for such a beautiful subject. I'm a long time out of University, but learning is a life long endeavor - to all those students looking for a gateway to Discrete Mathematics - this book makes Discrete Mathematics come alive - I highly recommend this book by Gary Chartrand.

Excellent Condition.

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