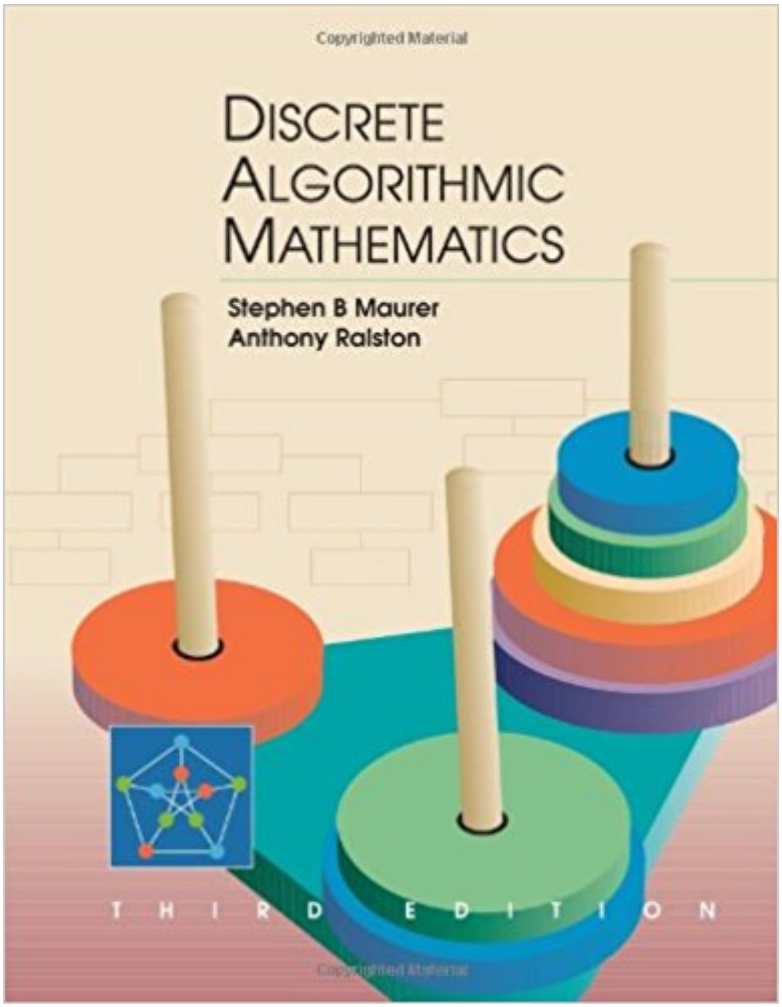
Discrete Algorithmic Mathematics, Third Edition



Synopsis

Thoroughly revised for a one-semester course, this well-known and highly regarded book is an outstanding text for undergraduate discrete mathematics. It has been updated with new or extended discussions of order notation, generating functions, chaos, aspects of statistics, and computational biology. Written in a lively, clear style that talks to the reader, the book is unique for its emphasis on algorithmics and the inductive and recursive paradigms as central mathematical themes. It includes a broad variety of applications, not just to mathematics and computer science, but to natural and social science as well. A manual of selected solutions is available for sale to students; see sidebar. A complete solution manual is available free to instructors who have adopted the book as a required text.

Book Information

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Customer Reviews

The exposition is self-contained, complemented by diverse exercises and also accompanied by an introduction to mathematical reasoning Ã¢â ¬Â¦ this book is an excellent textbook for a one-semester undergraduate course and it includes a lot of additional material to choose from.Ã¢â ¬â ¢EMS, March 2006 In a textbook, it is necessary to select carefully the statements and difficulty of the problems Ã¢â ¬Â¦ in this textbook, this is fully achieved Ã¢â ¬Â¦ This review considers this book an excellent one.Ã¢â ¬â ¢The Mathematical Gazette, March 2006

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and winner of the Allendoerfer Award for expository writing. Anthony Ralston (Ph.D. MIT 1956) is Professor Emeritus of Computer Science and Mathematics at SUNY Buffalo. He is a former President of the ACM.

Each chapter of that book deserves a book itself with detailed explanation/example on every term (and there are actually a lot of good books on each of the topic). Not sure what is the point to put everything in one book. I don't think that anybody who never heard about graphs/trees, difference equations, probability or algorithmic linear algebra could really understand/remember anything after going through this book.

I found this book to be truly extraordinary. Unlike the overwhelming majority of math texts, the authors describe the material in a manner reminiscent of an informal college lecture by gifted professors. They cover a lot of ground, but explain what's going on and why. I found it particularly striking that the authors sometimes present mistaken approaches to problems, follow them through to show what has gone wrong, and then show how to avoid the mistakes. This is particularly valuable when using the book for self-study. The exercises are carefully chosen and serve to expand on each section's material.

This book is utterly and completely useless. It does not progress in a logical manner. The author assumes you know everything he is talking about, and gives examples filled with topics that are not explained until later chapters. He explains things one way, yet his examples always seem to contradict what he says until you spend a good hour looking at them and realize he always uses some unexplained loophole in logic to derive his answers. This is not a useful book and I never would have bought it if it was not required at the college I attend.

The book does a good job of providing examples, the few that it does provide. I Would like the book to go into depth a little more and provide multiple examples for a given topic.

The product was brand new just like it said and shipping was very quick and arrived BEFORE projected date.

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