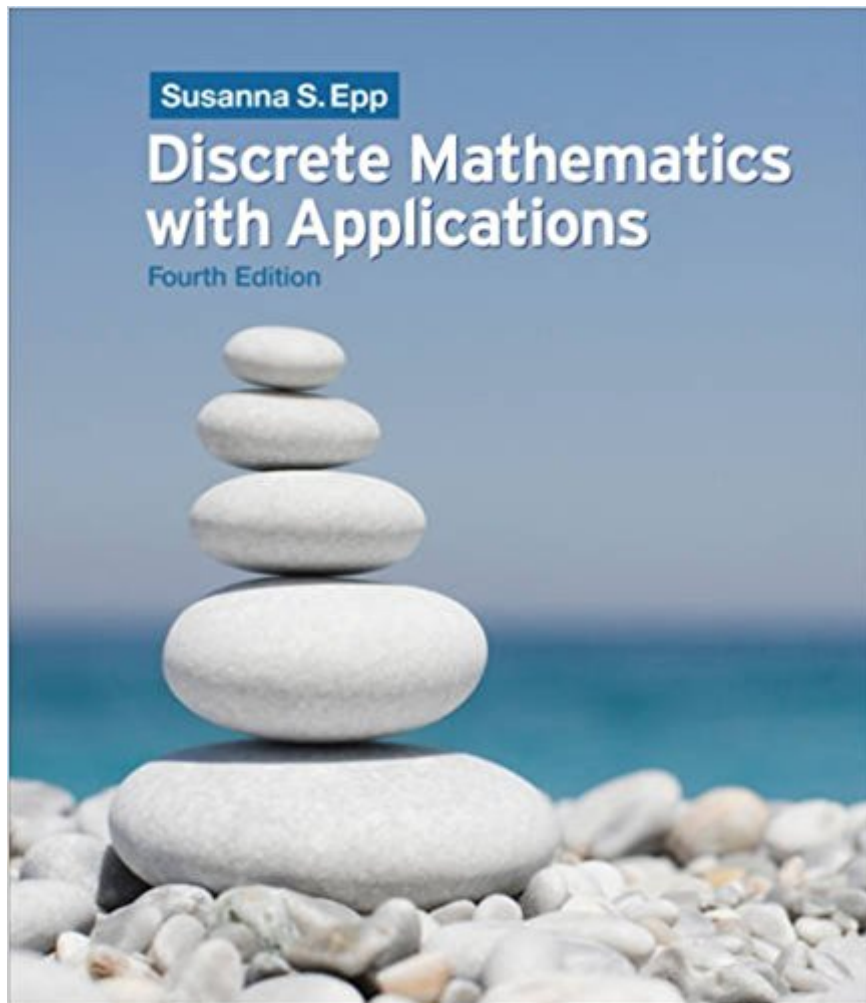




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# Discrete Mathematics With Applications



## Synopsis

Susanna Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, FOURTH EDITION provides a clear introduction to discrete mathematics. Renowned for her lucid, accessible prose, Epp explains complex, abstract concepts with clarity and precision. This book presents not only the major themes of discrete mathematics, but also the reasoning that underlies mathematical thought. Students develop the ability to think abstractly as they study the ideas of logic and proof. While learning about such concepts as logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography, and combinatorics, students discover that the ideas of discrete mathematics underlie and are essential to the science and technology of the computer age. Overall, Epp's emphasis on reasoning provides students with a strong foundation for computer science and upper-level mathematics courses.

## Book Information

Hardcover: 984 pages

Publisher: Brooks Cole; 4 edition (August 4, 2010)

Language: English

ISBN-10: 0495391328

ISBN-13: 978-0495391326

Product Dimensions: 10.1 x 8 x 1.6 inches

Shipping Weight: 4.1 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 196 customer reviews

Best Sellers Rank: #2,583 in Books (See Top 100 in Books) #1 in Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics #40 in Books > Textbooks > Science & Mathematics > Mathematics

## Customer Reviews

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[View larger](#) [View larger](#) [View larger](#) Focus on what's most important. Margin notes are provided to for better context, highlighting issues of particular importance. Worked examples in problem-solution format. Develop the ability to think abstractly as you study the ideas of logic and proof. A reference that you will refer to now & later. Features, definitions, theorems, and exercise types are clearly marked and easily navigable, making the text a reference that you will refer to in your later courses. Easy-to-conceptualize examples. With concrete and easy-to-conceptualize examples, you comprehend basic

mathematical reasoning, and construct sound mathematical arguments.

Susanna S. Epp received her Ph.D. in 1968 from the University of Chicago, taught briefly at Boston University and the University of Illinois at Chicago, and is currently Vincent DePaul Professor of Mathematical Sciences at DePaul University. After initial research in commutative algebra, she became interested in cognitive issues associated with teaching analytical thinking and proof and has published a number of articles and given many talks related to this topic. She has also spoken widely on discrete mathematics and has organized sessions at national meetings on discrete mathematics instruction. In addition to *Discrete Mathematics with Applications* and *Discrete Mathematics: An Introduction to Mathematical Reasoning*, she is co-author of *Precalculus and Discrete Mathematics*, which was developed as part of the University of Chicago School Mathematics Project. Epp co-organized an international symposium on teaching logical reasoning, sponsored by the Institute for Discrete Mathematics and Theoretical Computer Science (DIMACS), and she was an associate editor of *Mathematics Magazine* from 1991 to 2001. Long active in the Mathematical Association of America (MAA), she is a co-author of the curricular guidelines for undergraduate mathematics programs: CUPM Curriculum Guide 2004.

This is one of the best math textbooks I've ever had. The explanations are straightforward, and even the difficult concepts can be understood if you take the time to read over a section a few times. It also does a great job of highlighting the really important parts of each chapter. Sometimes the definitions are hard to keep track of because they use terms that were defined just a page ago, but that's not uncommon with math textbooks, and it's not hard to flip back and forth. The examples are useful and the explanations are good. A lot of the examples relate to computer science, which is useful because this course is required for computer science and electrical and computer engineers at my college. It makes it clear why the concepts in the book relate to the majors, and I think it makes it more interesting because the concepts seem more practical. The practice problems are also helpful and interesting, but I would like to have more problems that are similar to each other. This might seem odd, but I think it would be useful because I often find that when there are only one or two similar practice problems, by the time I look at the solutions and figure out how to do them, I don't have another problem to practice. However, this is a minor problem, and the book would be significantly longer if more problems were included. I recommend getting another book with more practice problems.

This book is great! I'm not even kidding when I write that this book is a pretty crisp and understandable higher-level math book. It really helps with the intuitive thinking that the higher maths require, and it'll - surprisingly - help with your programming skills. With this book you'll get a good understanding of Math and Computer Science, plus, it's a steal at this price (\$18.00 when purchased).

As other reviewers have said, this edition has many small grammar and other issues. However, on the author's website, she released free erratas for all the different editions, so you can make corrections. She does an excellent job of explaining material, so I do suggest her book overall.

I'm no math genius. I struggled to understand the explanations of concepts in this book. Not the concepts, the explanations of the concepts. I find myself googling a lot and I end up learning more from math websites, youtube, and Kahn Academy videos which makes me wonder why I need the book. Also for the money I expect fewer typos. Actually, I expect zero typos. I wasted 30 seconds trying to find the diagram referenced by the problem in the attached photo until I realized it was referencing the adjacent mislabeled diagram. When you are in deep thought trying to figure out a math solution diversions like that are a real nuisance.

This was a great book and it was very helpful. I give this four stars because there were some instances where the wording was a bit picky and unclear. Otherwise great textbook.

First, a little background: I'm a computer science graduate school and I never took discrete math, so I used this book to learn the subject on my own. I'm giving this book 5 stars because it has great explanations, lots of practice problems, and it's written in a way where I actually enjoy reading it. By providing lots of practice problems (and the answers) it's relatively easy for me to figure out whether or not I'm getting each concept. Keep in mind this book is EXTREMELY dense (as are most textbooks I suppose), and a single course in discrete math can't cover all the material in this book. I also like the various aside articles in each chapter that give you a relevant story along with the concept you're currently learning. Having used many textbooks over the years in my college classes, I will say that from the perspective of a (graduate) student, this is a wonderful book. I highly recommend it.

Overall, most of the concepts are well explained. However, the exercises are not very helpful.

Well I would like to say that this textbook has helped me for one of my college classes in digital logic, without it I probably would have been lost in this class. The price for this book, especially on is a great bargain. This book uses technical language right off the bat, however, the book does help a little to ease you into some of the new terms and concepts that you will eventually discover while reading this book. Furthermore, my word of caution is that sometimes you will need to use other sources such as google or talking to someone who knows a great deal about the subject to learn about some of the concepts and terms like predicates, domains, and digital circuits because the book has a tendency to assume that you have prior knowledge of these subjects. In conclusion, I would recommend this book to just about anyone who wishes to learn more about logic and how it correlates with mathematics and computer science and as I have mentioned earlier the price for this book is very cost efficient, but there may be times when you could become confused and need some outside help because the book does not always use the clearest wording to define these concepts and terms. P.S.: The price for this book can range from about \$10(used) to \$40(new). Discrete Mathematics With Applications

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