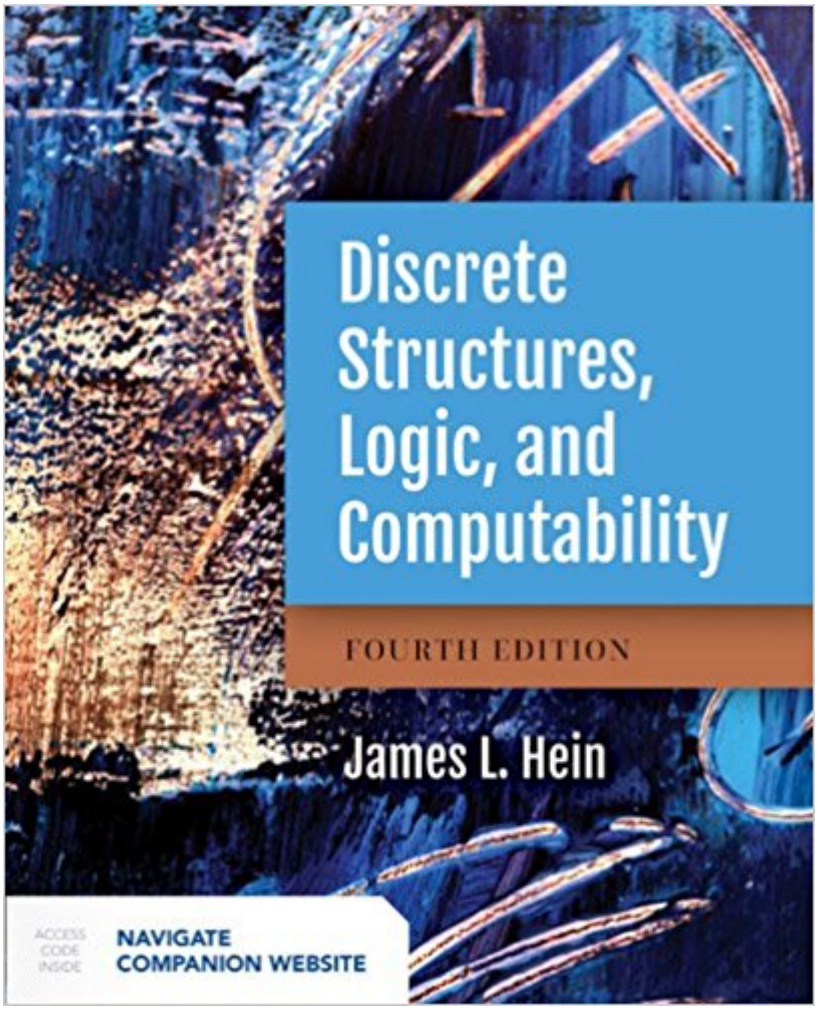
Discrete Structures, Logic, And Computability



Synopsis

Includes access to student companion website. Updated to align to the latest 2013 ACM/IEEE Computer Science curricula, Discrete Structures, Logic, and Computability, Fourth Edition is designed for the one- to two-term Discrete Mathematics course. The structure of the book supports the spiral method of learning, by first introducing basic information, allowing students to work on the problem, and then revisiting the topic as new information and skills are established. This method, coupled with a student-friendly and simplified writing style, provides an accessible yet comprehensive level of coverage. Written for prospective computer scientists, computer engineers, or applied mathematicians, who wish to learn about the ideas that underlie computer science, this edition contains an extensive coverage of logic, setting it apart from other books in the field. New and Key Features of the Fourth Edition: â ¢ NEW! â " Over 300 new exercises and 125 new examples have been added throughout the text â ¢ NEW! â " Learning objectives and review questions have been added to every section â ¢ NEW! â " Includes a new Chapter 10, Graph Theory, expanding the introductory material presented in Chapter 1 â ¢ EXPANDED! â " Provides expanded coverage of informal proof , which includes a wider range of proof techniques and examples â ¢ EXPANDED! â " Provides expanded coverage of discrete probability including conditional independence and elementary statistics â ¢ NEW! â " Includes access to the Navigate Student Companion Website, featuring a Student Study Guide and a Lab Book of experiments that use a free open-source mathematics software system

Book Information

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Customer Reviews

At Portland State, this book is used for beginning DS but it's a very unfortunate book to use, especially since the professor teaching it uses the same examples and notes based on the book to teach the subject in class. I actually went online and found Vladlen Koltun's lecture notes from Stanford University. He goes over the same subject matter, actually explains a good proof structure and the more basic assumptions being made, and frankly made a lot more sense. Only buy it if it's required.

Hated this book as it didn't give clear enough examples that I need to better grasp the material. Choose another text with more concise examples that is demonstrated down to the beginner's level.

Obviously this is a required book for most so a rating does little help in deciding if you should get this or not. But at least don't pay full price for this book, rent it or buy used and get rid of it.The examples and overall wording of the book is horrible. It is for entry level classes in this area and the reading is now where near that level. The content is hardly skimmed over and examples and exercises leave you confused on where the answers even came from. Most examples skip from problem to solution with no middle steps and variables/symbols that appear from nowhere.

This book can get you more lost than a first grader walking home from school. The exercise problems are terrible. It gives you the answers to all the easy problems and the hard problems which the chapters dont explain anything well will have you frustrated and confused. The chapters give you examples, but are not clear of how to work each example out. It just gives you the solution to the problem without giving an explanation. I have yet to find a solutions manual for this book. The book is not organized very well. If you have to have this book for a class, I suggest doing all the problems in each exercise, and the ones you cant figure out ask your teacher. I'm on my last two semesters in my CS degree and I have good programming skills, I would not recommend this book.

If you are buying this you probably don't have a choice. Like most texts it is obtuse and can be confusing. The professor, of course, jumps around like all professors do.On the bright side, the book has lots and lots of examples as well as even more examples through the exercises. This has been invaluable. Over all, in the grand scheme of Math proof and CS theory texts, this one is pretty decent.Its still a text book.

So this book has 3 editions, each released at years of 1995, 2001, and 2010. As I did some

readings, this book is mostly used here at Portland State University because it is the required textbook for any of the beginner Discrete classes. The author, James L. Hein is also a professor at PSU. Coincidence? I don't know, but the book is just terrible. For starters, other reviews talking about this book being completely inappropriate for a beginner are right. Also, it is the third edition and yet the book contains typos and mistakes in the examples to the point that the professors have to go out of their way and remind students about it. Why is this thing published?

if you dont have to get this book dont. the examples are laughable in most instances. they never give you enough info to answer questions and they are about a vague as you can be on a lot of subjects.

This book + an awful professor really really sucks. Warning: include them both in the same class be prepared to pay the price.

Intuition)