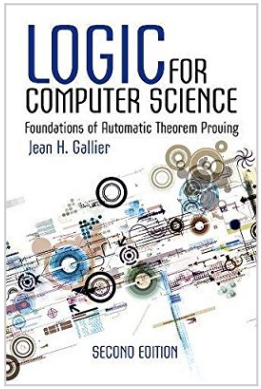

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science)

By Jean H. Gallier

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier

This advanced text for undergraduate and graduate students introduces mathematical logic with an emphasis on proof theory and procedures for algorithmic construction of formal proofs. The self-contained treatment is also useful for computer scientists and mathematically inclined readers interested in the formalization of proofs and basics of automatic theorem proving.
Topics include propositional logic and its resolution, first-order logic, Gentzen's cut elimination theorem and applications, and Gentzen's sharpened Hauptsatz and Herbrand's theorem. Additional subjects include resolution in first-order logic; SLD-resolution, logic programming, and the foundations of PROLOG; and many-sorted first-order logic. Numerous problems appear throughout the book, and two Appendixes provide practical background information.

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science)

By Jean H. Gallier

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier

This advanced text for undergraduate and graduate students introduces mathematical logic with an emphasis on proof theory and procedures for algorithmic construction of formal proofs. The self-contained treatment is also useful for computer scientists and mathematically inclined readers interested in the formalization of proofs and basics of automatic theorem proving.
Topics include propositional logic and its resolution, first-order logic, Gentzen's cut elimination theorem and applications, and Gentzen's sharpened Hauptsatz and Herbrand's theorem. Additional subjects include resolution in first-order logic; SLD-resolution, logic programming, and the foundations of PROLOG; and many-sorted first-order logic. Numerous problems appear throughout the book, and two Appendixes provide practical background information.

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier Bibliography

- Sales Rank: #883242 in Books
- Published on: 2015-06-18
- Released on: 2015-05-20
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.00" w x 6.10" l, .0 pounds
- Binding: Paperback
- 528 pages

Editorial Review

Users Review

From reader reviews:

Nancy Sobel:

The book Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) make one feel enjoy for your spare time. You may use to make your capable considerably more increase. Book can to get your best friend when you getting tension or having big problem along with your subject. If you can make reading through a book Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) to get your habit, you can get a lot more advantages, like add your capable, increase your knowledge about a few or all subjects. You may know everything if you like wide open and read a e-book Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science). Kinds of book are a lot of. It means that, science publication or encyclopedia or other individuals. So , how do you think about this book?

Jessica Adkins:

Hey guys, do you would like to finds a new book you just read? May be the book with the subject Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) suitable to you? The actual book was written by well-known writer in this era. Often the book untitled Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science)is the main one of several books this everyone read now. This book was inspired a lot of people in the world. When you read this e-book you will enter the new shape that you ever know before. The author explained their plan in the simple way, therefore all of people can easily to understand the core of this book. This book will give you a great deal of information about this world now. To help you see the represented of the world with this book.

Solange Smith:

A lot of people always spent their particular free time to vacation or go to the outside with them household or their friend. Do you realize? Many a lot of people spent they free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity this is look different you can read a book. It is really fun to suit your needs. If you enjoy the book that you read you can spent the whole day to reading a publication. The book Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) it doesn't matter what good to read. There are a lot of people who recommended this book. We were holding enjoying reading this book. When you did not have enough space bringing this book you can buy typically the e-book. You can m0ore easily to read this book out of your smart phone. The price is not to cover but this book features high quality.

Naomi Dillon:

In this period of time globalization it is important to someone to receive information. The information will make a professional understand the condition of the world. The healthiness of the world makes the information simpler to share. You can find a lot of personal references to get information example: internet, magazine, book, and soon. You can see that now, a lot of publisher that will print many kinds of book. The book that recommended for you is Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) this publication consist a lot of the information from the condition of this world now. That book was represented so why is the world has grown up. The language styles that writer value to explain it is easy to understand. Often the writer made some research when he makes this book. This is why this book appropriate all of you.

Read Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier for online ebook

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier books to read online.

Online Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier ebook PDF download

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier Doc

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier Mobipocket

Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier EPub

MY4UP8O0CDF: Logic for Computer Science: Foundations of Automatic Theorem Proving, Second Edition (Dover Books on Computer Science) By Jean H. Gallier