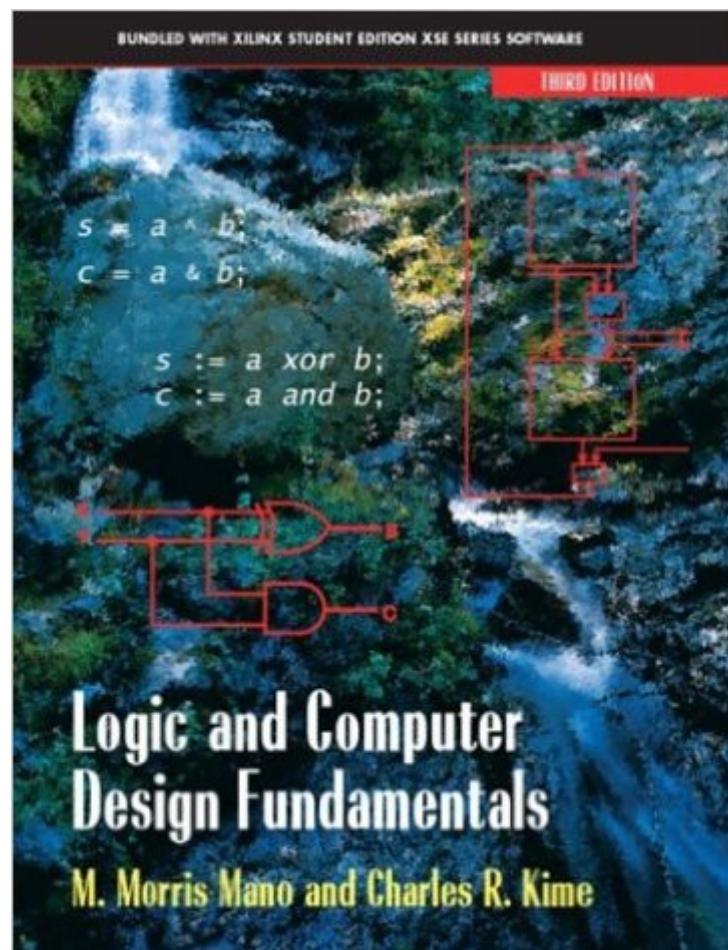


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Logic And Computer Design Fundamentals, Third Edition



Synopsis

Providing solid digital system design fundamentals while accomplishing a gradual, bottom-up development of these fundamentals, this book focuses on the ever-evolving applications of basic computer design concepts. Treatment of logic design, digital system design, and computer design. Ideal for self-study by engineers and computer scientists.

Book Information

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Customer Reviews

The only reason I would purchase this because is because it was a required book in my school. And boy, this is some really rough reading. Let me generalize, being a technical book and a "logic" one the authors' attempt to convey a message so garbled and mismanaged it is extremely mind numbing to read. For example, here's an excerpt from the book, "We also, however, choose to treat it first so that we can clearly justify, in terms of hardware cost, that which otherwise appears bizarre and often is accepted on faith, namely, the use of complement representations in arithmetic." Ok that wasn't so bad right? Well think about reading a few pages. Bored yet? I feel like I'm in a middle of a Sunday church service and the priest is repetitiously rephrasing a sentence over, and over, and over with no meaning intended. I believe these authors should stick to what they do best. Design circuits. They fail to explain things thoroughly without an emphasis WHY. Also there is too much technical garble mixed up with sentences which really should be split into paragraphs. Another thing is a hefty price tag that comes with this book. I also forgot to mention the software. The software is designed by Xilinx. I've not been able to get it to run on either my laptop, or my home pc. During lab

hours at my school the schematic editor has been nothing but buggy. The software would at times erase my circuits, files wont save, etc. I find myself rewriting circuits 5 to 6 times just to rid of bugs that just seem to appear. If this book wasn't used in my classroom I'd recommend avoiding it. Not only is this book well over 100 dollars new and/or used the authors do a terrible job conveying technical data into a well formed, understandable structure we REAL humans can understand.

This book is used for first and second year computing science and engineering courses at Simon Fraser University (BC). Logic and Computer design fundamentals can be used as a decent supplement to a course, however, it would be nigh on impossible to learn the material without a decent teacher helping you along. I have had the privilege of an excellent prof in the courses using this book and that is necessary. Logic and computer design fundamentals is best used as either a supplementary reference for some diagrams or better, not at all. Material Covered: Digital Computers and Information --> Introduction to number systems, codes, etc... basic and unclear for a beginning student. Combinational Logic Circuits --> This is where an intro to logic book has to shine however for many of the persons that I know, they were unable to decipher how to sketch a Karnaugh map from this book. Were it not for the prof, the classes would be worthless. Following Material: Combinational Logic Design, Sequential Circuits, Registers and Counters, Memory and Programmable Logic Devices, Register Transfers and Datapaths, Sequencing and Control, Instruction Set Architecture, Central Processing Unit Designs, Input-Output and Communication, Memory Systems. I would strongly discourage anybody from purchasing this book with the intentions of gaining a good understanding of Logic and Computer Design. The effort required to understand the material is unneeded as there are far superior books available.

If this book is required for your class, PLEASE buy a different book. This book offers little to no explanation of key topics, is very poorly written, and is hard to follow. In many cases, you will be better off simply reading Wikipedia. If you go to a school that requires this book, I would advise you to write angry letters to the people who decided to use it until they submit to your whim. By choosing this book, they have ruined an entire semester of class for you. How does that make you feel?

All the bad reviews are true. This book is abysmal. It's painful to read. It is horribly written. Even worse, within two months, the binding on my brand new copy fell apart. It's criminal the publisher ask \$100+ for this trash. Professors need to boycott this book - FAST! Do your students a favor and use the Roth books and/or just make-up your own notes. UPDATE: To the credit of the bookstore

manager where I purchased this book and the publisher, my copy was replaced with a new one after I showed them how much it had fallen apart in such a short time even with normal use.

I have this book because it is required for the course in computer architecture I am taking. In addition to the stuff the other guys above wrote which is all true, it has the infuriating habit of placing figures overleaf the explanation for the figures.

Lots of text and some of the explanations aren't very clear. I came to the conclusion that there are probably better options for self-study. However, I paid something like \$1.60 for a brand new copy so I can't complain too much. One plus is that you can find the solutions manual online but stay away from [...] to check your answers to the problems because whoever wrote their solutions doesn't understand the material very well. Some solutions were flat-out wrong while others were careless mistakes.

If you can possibly avoid it, don't buy this book. If you can't possibly avoid it, remember to use the internet. The internet is 3000 times better at things than this book is. Also, realize that even the problems in this book have continuous typos so if your TA grades you as wrong, check to make sure you are doing the same problem their solution book solved. I wish we could rate this book without a star.

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