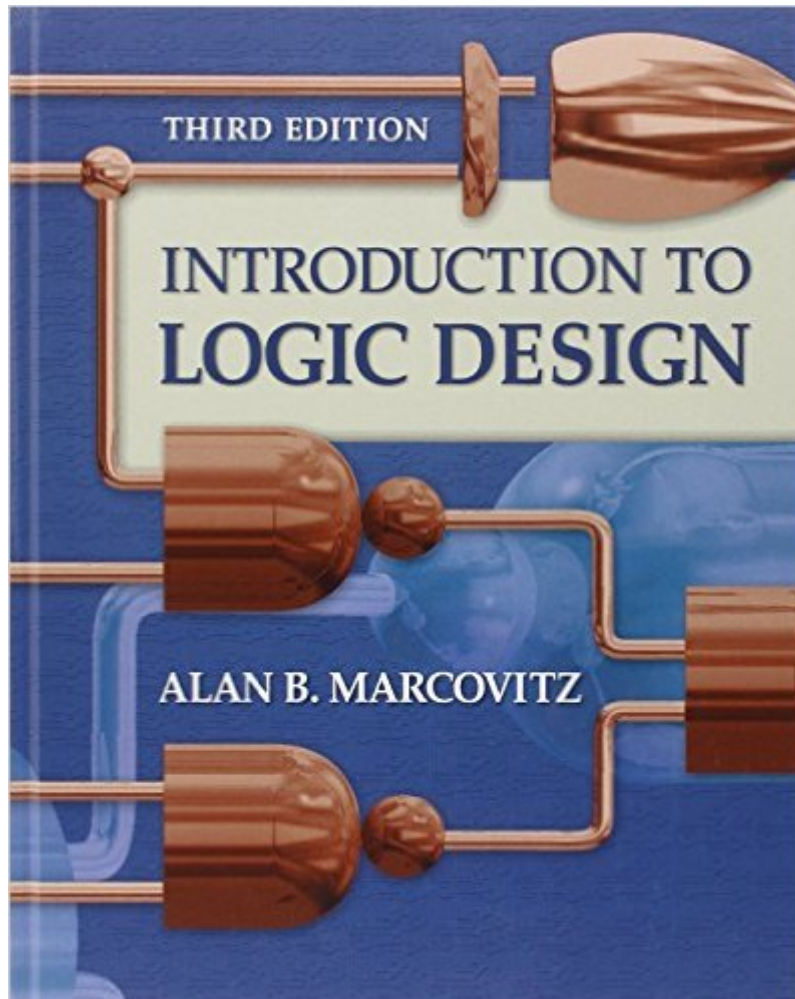


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# Introduction To Logic Design, 3rd Edition



## Synopsis

Introduction to Logic Design by Alan Marcovitz is intended for the first course in logic design, taken by computer science, computer engineering, and electrical engineering students. As with the previous editions, this edition has a clear presentation of fundamentals and an exceptional collection of examples, solved problems and exercises. The text integrates laboratory experiences, both hardware and computer simulation, while not making them mandatory for following the main flow of the chapters. Design is emphasized throughout, and switching algebra is developed as a tool for analyzing and implementing digital systems. The presentation includes excellent coverage of minimization of combinational circuits, including multiple output ones, using the Karnaugh map and iterated consensus. There are a number of examples of the design of larger systems, both combinational and sequential, using medium scale integrated circuits and programmable logic devices. The third edition features two chapters on sequential systems. The first chapter covers analysis of sequential systems and the second covers design. Complete coverage of the analysis and design of synchronous sequential systems adds to the comprehensive nature of the text. The derivation of state tables from word problems further emphasizes the practical implementation of the material being presented.

## Book Information

Hardcover: 656 pages

Publisher: McGraw-Hill; 3rd edition (January 9, 2009)

Language: English

ISBN-10: 0073191647

ISBN-13: 978-0073191645

Product Dimensions: 7.5 x 1.2 x 9.4 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

Average Customer Review: 2.8 out of 5 stars [See all reviews](#) (16 customer reviews)

Best Sellers Rank: #223,079 in Books (See Top 100 in Books) #33 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Computer Design](#) #38 in [Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic](#) #1383 in [Books > Computers & Technology > Computer Science](#)

## Customer Reviews

I'll echo the poor reviews of this book by others. This is a terrible textbook. It was required reading for a course I took in digital electronics. The Table of Contents is well organized, but concepts within

each chapter are disorganized and poorly explained. Rather than explaining key concepts in an organized fashion and then providing examples that show how to apply the concepts, this book immediately delves into detailed examples and buries the explanation of key concepts in the examples. Even then, the concepts are often so poorly explained that I had to use other resources to understand what the author was trying to convey. Although I continued to read the book as assigned by the professor, I often found that much of the reading was a waste of my time, and I relied heavily on other resources (lecture, Google, etc.) to actually learn the course material. Not recommended.

This is by far the worst text book I have ever purchased. The organization seems purposefully confusing. Homework problems often send you on "wild goose chases" to find figures and examples required to answer the questions. "CEs" (continuing examples) are used throughout the book that force you to constantly jump around to understand what the author is trying to convey. It feels like they really tried to cut costs emphasizing a structure friendlier to ink savings rather than understanding. Here's an example: A homework problem might ask you to use the same method used in a continuing example, while referencing a diagram within a figure to answer a question. Before you can even begin, you have to find the continuing example on one page, find the diagram on another, then keep the places with your fingers and turn back and forth while trying to understand what is being asked. I'm also not a fan of the flow of the book. It feels like the author said to himself, "How can I write this book to make me sound really smart". Instead of "How can I ensure the reader will follow my explanation". Finally, and perhaps most irritating is the choice of colors in the book. Most of the text in the body is fine however, figures and diagrams are light red, red, burgundy and burnt sienna! The text will say something like; "...as can clearly be seen by the red lines..." and I want to scream, "they're all red!!!" If you're considering this book it is likely because you will be compelled to buy it for a class. If you have any say in the matter, say "no thanks".

I am supposed to be buying this for my Digital Logic class at my university but I refuse. I have looked into other class mates books when we had to do specific problems and it is just not good. Poor organization and poor examples. I found a free pdf version online I'll be using just to complete the homework but I'd never spend this much money on such a poor textbook. 2 stars just because the explanations in the book are so bad, I really had to go the extra mile to learn the concepts, which in turn made me understand and remember them better.

Bought this book for an introductory digital design class at my university. Didn't use it much except for homework problems. Although the book does cover a lot of content in detail, the wording and organization of the book is very poor. Sometimes it'll present topics in a sequence that doesn't make very much sense, or the wording of the book will simply confuse the reader. Tried to use it to study for an exam or midterm, but consistently found myself struggling with the book due to a lack of relevant examples and unclear phrasing. For the price of this book, I think that there's much better out there.

As a student, I often found this book to be helpful in my studies. The examples are a bit sketchy, but they force you to think to apply them to the material. The chapters are a bit confusing, but you shouldn't be using this book for an introduction to this course. Overall, this book is good for the intermediate or advanced digital logic technician.

This book was required for an Introduction to Digital Design class (I am currently about one third into the class), and the book was only used for the homework. Since there wasn't really any assigned reading, the book wasn't the best for homework reference, so much as a tool to review material that was taught in the lectures. The inside cover had a helpful reference sheet, but so far I have not found too much useful inside the actual chapters to simply skim through and find useful. To make the most of this book, you really do have to read it, since skimming won't give you time to do the logical thinking you'll need to understand the problems. I found once I started reading through a few chapters that it not only helps you with the current problems, but will also give you a good foundation for future chapters and problems. The book is decently written, but the organization is poor. Review problems are at the end of every chapter, but have no references in the book that can be used to look up page numbers. Some of the answers are in the back, but they are also hard to find. If you plan on using the book for homework, I suggest a few bookmarks or sticky notes to mark the page numbers. Take good notes in class, and think about the concepts enough, and you may find that you don't need the book to do most of the problems. Since I bought the book purely for a class, I found that the book seems to be written more for independent study, as jumping around in the book is harder than simply reading it through.

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