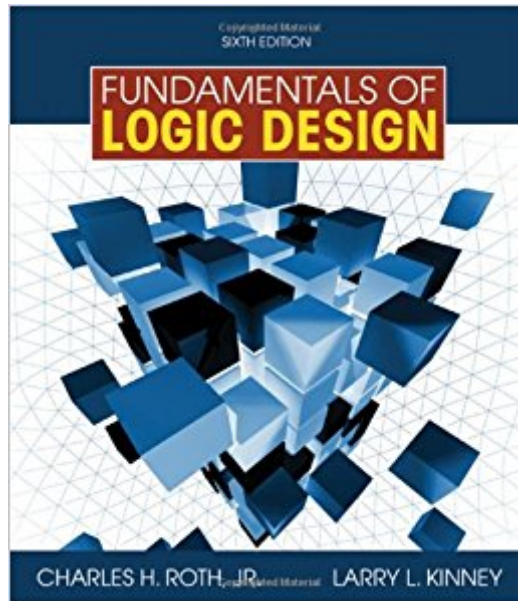




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# Fundamentals Of Logic Design (with Companion CD-ROM)



## Synopsis

Updated with modern coverage, a streamlined presentation, and an excellent companion CD, this sixth edition achieves yet again an unmatched balance between theory and application. Authors Charles H. Roth, Jr. and Larry L. Kinney carefully present the theory that is necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory. Divided into 20 easy-to-grasp study units, the book covers such fundamental concepts as Boolean algebra, logic gates design, flip-flops, and state machines. By combining flip-flops with networks of logic gates, students will learn to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and the VHDL hardware description language.

## Book Information

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## Customer Reviews

The material is very well presented. Starting with a study guide in each chapter helps students reevaluate whether they have learned the material. Programmed exercises guide the student in solving the initial problems in each chapter. I like the way that VHDL is introduced at Chapter 10 (just after the combinational logic) and Chapter 17 (just before the sequential logic). For a first course in logic design, I like the briefness of the chapters. It places the presented materials in focus.

Charles Roth is Professor Emeritus in Electrical and Computer Engineering at the University of Texas at Austin, where he taught Digital Design for more than four decades. He is the author of

Fundamentals of Logic Design, which is in its sixth edition, and Digital Systems Design using VHDL, which is in its second edition. Larry L. Kinney is a Professor and Director of Undergraduate Studies at the University of Minnesota. He received his Ph.D in Electrical Engineering from the University of Iowa in 1968. His research concerns digital system and digital computer design, specifically concurrent error detection techniques, testing of logic and design, distributed computer systems, computer architectures, error detecting/correcting codes, and applications of microprocessors.

Not great. Not bad. Supplementing a decent instructor it was very passable. The programming side of this book is what makes it stand out from others. Getting familiar with microprocessors and some basics regarding computer architecture should be the take away here. Learn and know boolean algebra before getting into the course and you'll be well ahead of the game. It doesn't take too long on your own, and it does take several classes for the professor to go through it all. Your first test's material will probably end with converting boolean expressions so if you can get that down before starting the class you'll have a good time. Same goes for base conversions (decimal to hexadecimal, octal to binary, etc.)

Good basic text.

Its ok. could have more pictures. really takes time to understand the material; would do better with online slides from free places

I got what I want in a good price

If you're self teaching this to yourself, i'm sure there's a better option. But seeing the bulk of us are buying this because a class specifies it, it really doesnt matter whether or not its good. it does a fairly good job at showing the numerical calculations along side the circuit diagram, which is rather useful. Other than that its not over the top great. HOWEVER paying \$80 instead of the retail value of \$200's always a nice treat. I also got it within a week of ordering, which was really kind of them.

Good book for my class

I bought this book for a class I took at Cedarville University called Digital Logic Design. It's a great textbook, we used problems in the back for homework. Hard concepts, but explained very well.

I had posted an earlier less favorable review because I paid for a new book as advertised but it was used (used sticker included). Just wanted to add the any\_book resolved the problem with a satisfactory partial refund ( i kept the book) for the mistake.

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