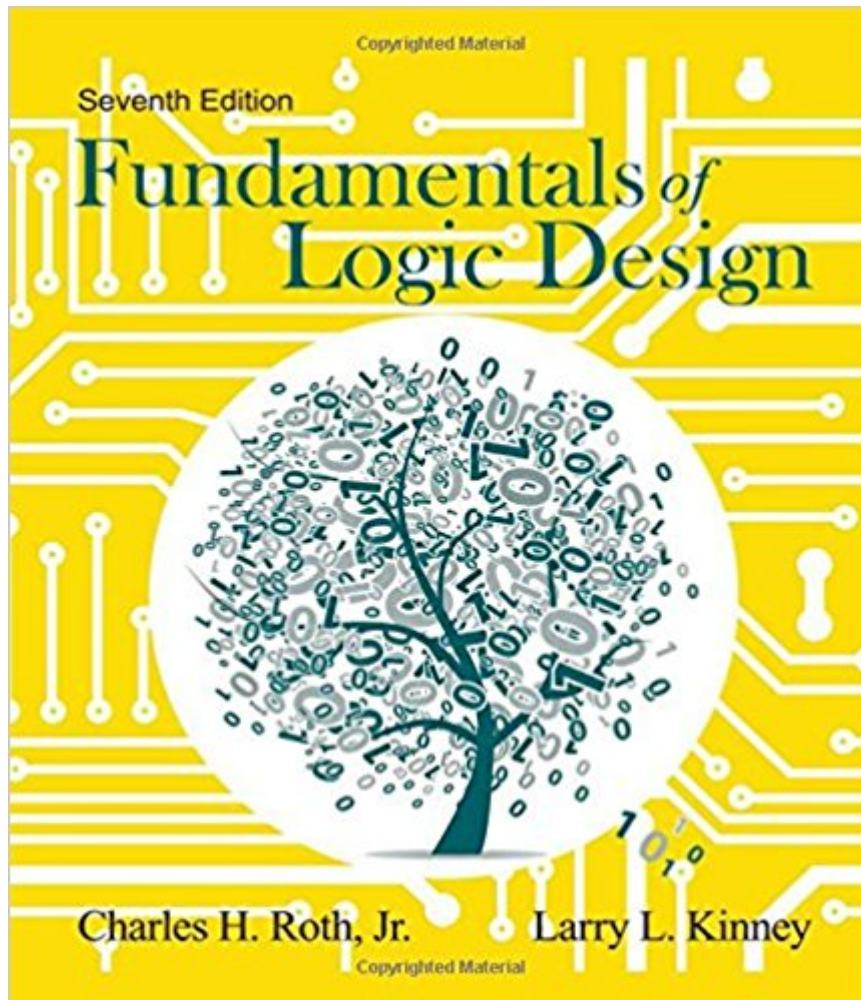


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# Fundamentals Of Logic Design



## Synopsis

Updated with modern coverage, a streamlined presentation, and excellent companion software, this seventh edition of FUNDAMENTALS OF LOGIC DESIGN 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

My university assigned this book for a freshman course on digital circuit design. I hated it. While it was intended for guided self-study, it was very easy to get lost in the unexplained terminology, grammar and spelling errors, and overall lack of organization. At many points in the book, the writer tends to explain a concept referencing a figure but the figure is one that is two pages away from its explanation. There is also a Problems section for each chapter that sometimes involve concepts that are not completely explained until four chapters later. I consider much of the organizational issue a fault on the part of the editor but the author should probably take a writing class in his spare

time because this textbook is not "for a first course in the logic design of digital systems" at all, despite what he claims in the preface.

This book is your punishment for being an electrical engineering major! It makes the simple things complicated, provides many exercises without any solutions to provide you with feedback to verify your understanding is right, and also has so much ambiguity in the statement of problems that everyone, including your teacher(s), will have a different interpretation of what the correct solution is. Ditto with the Simuaid/Logicaid software - it's so advanced that no version of windows can run it without crashing.

This is one of the textbooks written in some secret code that only the author could understand. It even makes some of the simple topics complex. The worst part is that it doesn't really explain the VHDL which is a fresh topic in for undergrads at this level. This book is intended as a self study, but good luck to those!

Some text books are so well put together...this is NOT the case here. Poor examples, that are hard to locate. I cannot wait to sell this back. I pity anyone that has a class requiring this book. I passed my class though ;)

This book has practice problems for ECE 2000 and teaches you the fundamentals of basics of electrical engineering. It is \$60 cheaper on to purchase than from the OSU Barnes and Noble, which is a great deal. I it is quite expensive for its size, but all textbooks are.

I have just begun using the book for the current semester and have already found numerous typos with some important information.

This is a good book if you somewhat already understand the material and you're just reviewing. I wasn't fond of how it skims through unintuitive ideas and jumps all over the place- sometimes it used terminology not introduced until in later chapters.

One of the better textbooks on the subject that I have used, a shame there was a gun to my head when I bought it.

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