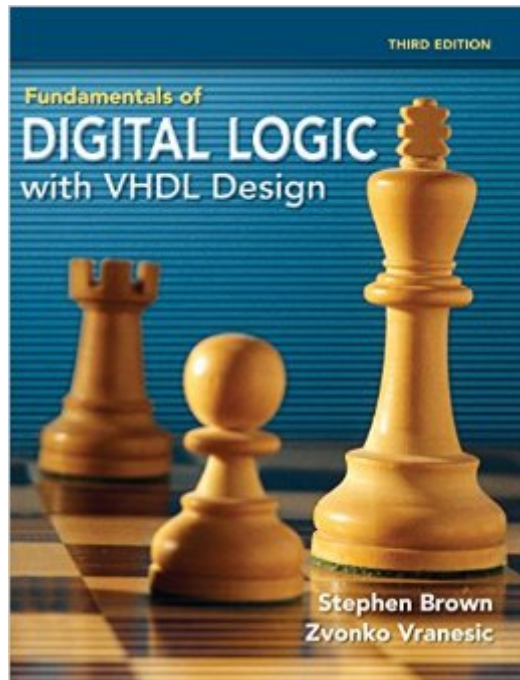


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# Fundamentals Of Digital Logic With VHDL Design



## Synopsis

Fundamentals of Digital Logic with VHDL Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small exa

## Book Information

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## Customer Reviews

Fundamentals of Digital Logic is the book I am using during this semester in my Computer Engineering Ciriculum. Brown and Vranesic were more than likely very on top of their game when they first wrote the book - but it is clearly dated. The classic example of a pop machine (state machine design) really needs to be buried. The book's examples are often difficult to follow, as there is very, very heavy reading involved. When I am presented with a concept in digital logic, computer science, or engineering, I want clear examples, with all steps explained in detail - not a paragraph or two with the idea enclosed. It just doesn't work as well as several good examples. However, the book isn't all that horrible. In fact, it's not bad at all. It does a fine job of explaining memory elements, but, in retrospect, it does an extremely poor job of covering transmission gates and multiplexers. I can't tell you how long it took me to figure out how to work both of those devices. All in all - I'd say if you have to buy this book for your course, you might want to pick up a few

supplemental texts for additional insight into more challenging concepts. Good luck!

I had one of the author of this book as my professor during my second year of engineering at the University of Toronto. I used this book for my Digital System course. I am currently doing ASIC Design where much of my work required VHDL. This is an "OK" book. It contains a lot of information but nothing special because other similar books also have such infos. I would recommend another book because I am too also referring to other sources for reference. If you are looking to learn VHDL in depth, please look else where. As for beginner, there are much better books out there for Digital Circuits design and VHDL. This is not a book worth its price. I sold it after my second year and I am glad I did it. Get yourself a book strictly on Digital Circuit alone, get the hardware basics in your head first, then get another book strictly on VHDL. This should gives you a fair depth into the Digital Design.

Being completely new to VHDL and only somewhat experienced with TTL circuits, I needed a book that would cover all the basics of logic design before getting into VHDL. Logic concepts I previously had trouble grasping were made much clearer in the context of the VHDL examples. Definitely five stars!

This book was pretty understandable probably even at the freshman level. It does not contain a whole lot of insight as to HOW transistors work but is sufficient in developing the basics of Boolean logic. I used it as a reference for latter microprocessor system design and computer architecture courses.

I'm currently using this book for a Digital Design class and I have yet to be impressed. Though this book has lots of useful information it phrases it in such a way that you have to be a rocket scientist to understand it. As for the VHDL you're supposed to be learning from this book it stinks. I work the problems at the end of the chapters for practice and constantly have problems finding the answers in the text or finding example VHDL code that is relevant to the problem I'm trying to answer. In short I do not recommend this book.

I have taken one computer programming course prior to using this book, It was rough to say the least. The biggest problem with the book is not the content but rather the way at which its presented. It will tell you to refer to diagrams on different pages quite frequently when trying to

understand what they're trying to get across and most times you'll forget what the point of looking on the other pages were. I ended up using a different book to understand the content and it helped way more than this one because the manner in which it was written was a lot more logical. There is a lot of fluff and wasted reading in this book and it doesn't get to the point of what you need to know or how to learn it.

This particular book is for the INDIAN version (For use in India, Pakistan, Bangladesh etc) It's that little red blurry bubble on the front of the book. This might not matter for a lot of people, but I certainly felt misled....I now have to check with my professor that this version is OK and won't be different from the normal book for class.

If you want a book that explains things in a reasonable manner look elsewhere. Numerous locations throughout the text are found where the more complex topics are barely given a paragraph with no examples or well laid out explanation. Problems in the back of the chapters do little in the way of helping to understand the material. It does present the material, but it does so in a completely horrible and nearly unreadable fashion. The short appendix explaining VHDL is also awkwardly laid out and unhelpful.

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