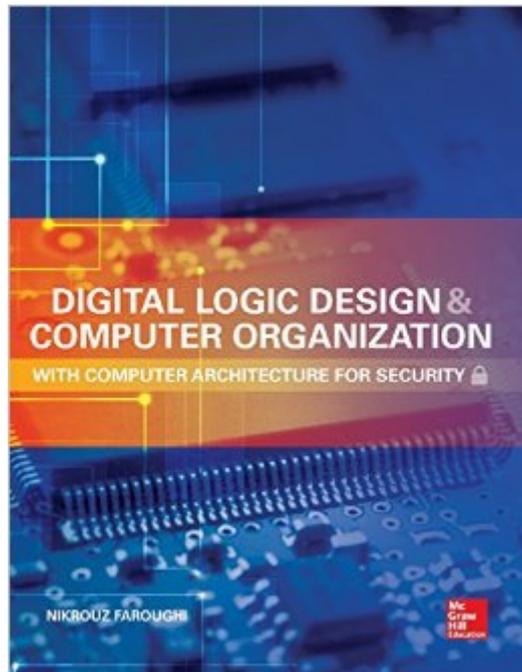# Digital Logic Design And Computer Organization With Computer Architecture For Security

Synopsis

A COMPREHENSIVE GUIDE TO THE DESIGN & ORGANIZATION OF MODERN COMPUTING SYSTEMS Digital Logic Design and Computer Organization with Computer Architecture for Security provides practicing engineers and students with a clear understanding of computer hardware technologies. The fundamentals of digital logic design as well as the use of the Verilog hardware description language are discussed. The book covers computer organization and architecture, modern design concepts, and computer security through hardware. Techniques for designing both small and large combinational and sequential circuits are thoroughly explained. This detailed reference addresses memory technologies, CPU design and techniques to increase performance, microcomputer architecture, including "plug and play" device interface, and memory hierarchy. A chapter on security engineering methodology as it applies to computer architecture concludes the book. Sample problems, design examples, and detailed diagrams are provided throughout this practical resource. COVERAGE INCLUDES: Combinational circuits: small designs Combinational circuits: large designs Sequential circuits: core modules Sequential circuits: small designs Sequential circuits: large designs Memory Instruction set architecture Computer architecture: interconnection Memory system Computer architecture: security

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Customer Reviews

Let me preface this review by saying that this course is complicated and difficult. I believe many of

the other reviews come out of frustration of the course and not the book. The book is a good resource and has many great aspects about it. There are a few downfalls and those are common with the other reviews, which is the errors that are throughout the book. Professor Faroughi will provide a list of errors and corrections upon request. This will take care of 99% of the confusion. When looking at other books that are similar in subject matter, this one has shined in great relatable examples. Towards the end of chapters there are great verilog code examples as well as critical thinking questions about the subject matter for that given section. If you put in the time to learn the subject, this is a great resource and will aid you in understanding logical circuit design.

Not helpful even for a course he teaches.

*At the time of this review, problems with the kindle version still exist*I was satisfied with the contents of the book, thus I gave the review 5 stars. All of my issues are with the kindle version of the book, which I would give one star.After my second year of college and collecting a bunch (now) useless books, I decided to start buying all my books on Kindle so I wouldn't have to deal storing them for any future purpose. I have purchased many kindle versions of text books to use on my Galaxy tablet and I have always been satisfied until this book.For some reason, this book isn't formatted like a textbook normally is laid out for kindle. Normal text books have the same exact pages as the hard copy, and allow you to flip from page to page, and even zoom in on pages. However, this book is formatted similar to some of the novels I have bought on kindle. Instead of page numbers there are locations, about 10,000 of them, which is relatively meaningless while searching for a specific diagram or concept in the book. When trying to zoom in the read the text, the entire layout of the page changes, making it extremely difficult to refer to diagrams while reading the section that describes it. There are more problems with the Kindle version but I think you get the point by now.Here is the bottom line: if you are like me and like to buy your books for Kindle save yourself the trouble and buy the hard cover of this one.

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