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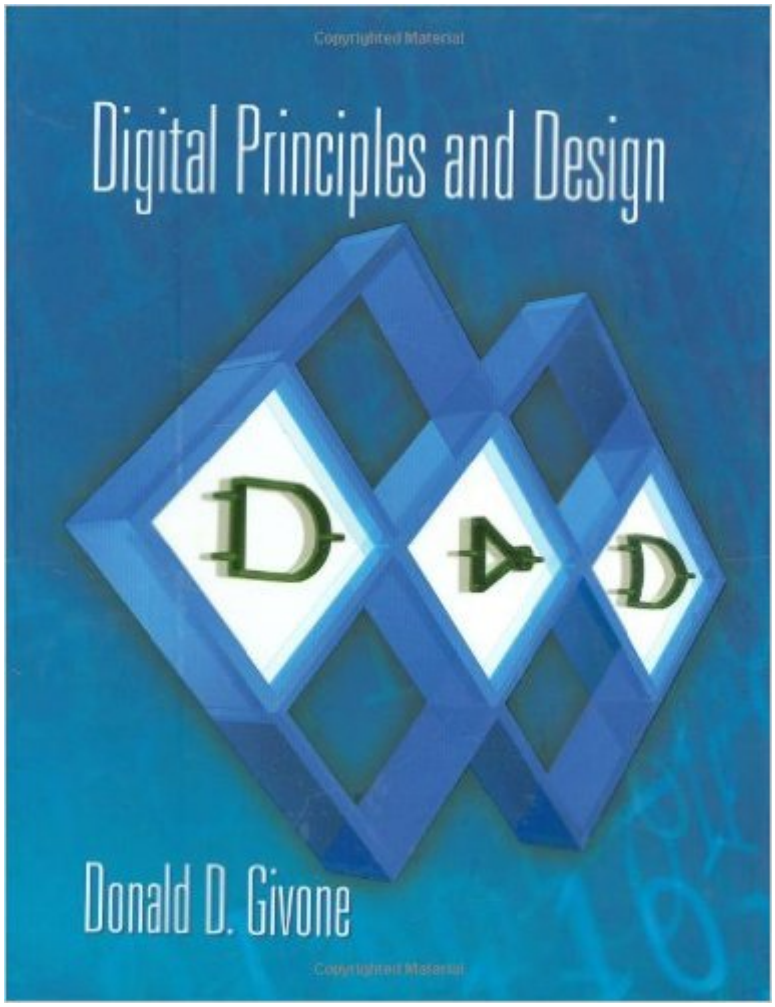
Digital Principles And Design



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Synopsis

This exciting first edition provides more depth than existing digital design books, using a traditional approach to the subject. Digital Principles and Design contains introductory material in digital principles with emphasis on logic design, as well as more advanced material. With the exception of the digital circuits appendix, it assumes no background on the part of the reader. The text can be used by readers in computer science, computer engineering and electrical engineering. The emphasis in the book is on the thorough presentation of basic principles of logic design and the illustration of these principles. While many introductory texts only provide the mechanics of classical logic design, Givone provides justifications behind these procedures to give students the understanding they need for the advanced topics they will learn about in subsequent courses. Some of the topics that the book thoroughly presents include: the simplification of Boolean expressions with Karnaugh maps, variable-entered Karnaugh maps, and the analysis and design of both clocked synchronous sequential networks and asynchronous sequential networks. Every book contains a CD-ROM with Alteraâ ™s advanced MAX+plus II 10.1 Student Edition CAD system, as well as Multisim 2001 Textbook Edition from Electronics Workbench. An appendix and the book website provide additional resources on these software tools, as well as LogicWorks. --This text refers to an out of print or unavailable edition of this title.

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Customer Reviews

I’ve just completed an introductory course in Digital System Design, which requires this book. I

really didn’t care for this book in the least. Before I begin my explanation as to why, first let me state that I received an "A" in the course. I only mention this so that it’s clear this isn’t just a bitter rant due to a poor grade.I think the main problem with this book is that it is FAR too formal. The author uses terminology from Discrete Mathematics so much that the book is really incomprehensible. The language that the author uses to describe new concepts is the sort of thing you’d expect to see in a formal proof. Doing a formal proof using Discrete Math terminology is fine, but you’d expect there to be supporting text which breaks down the concepts into more digestible language. This book doesn’t do that at all. It reads like one huge, 700 page mathematical proof. I found myself reading each section over and over again trying to decipher the explanations. The sort of explanations in this book might be appropriate for a doctorate dissertation in which your audience are already experts in the field. However, this book assumes no prior knowledge from its readers and it intends to be an introduction to Digital System Design. A book like this should endeavor to convey information and introduce concepts to the reader in an easily digested manner. "Digital Principles and Design" utterly fails in this regard.Also required for this class was a book called "Logic and Computer Design Fundamentals" by M. Morris Mano. This is a far superior book in my opinion. It is much easier to read and has clear, lucid explanations, as well as many excellent illustrations and examples. I would skip "Digital Principles and Design" and go for "Logic and Computer Design Fundamentals" instead.

I read the comments of the previous reviewer, and I have to agree, s/he made a very good point: this book is not an easy read. However, I’d also like to offer a bit different point of view.I have been teaching Digital Electronics from this book for the third semester now, and so far things have been going fine. I may be a bit biased; I hand-picked this book after going through a whole host of desk copies, and compared them based on more dimensions than eharmony dot com can ever dream about... Our primary goal was to find a book, which is equally suitable both for Digital Electronics [combinational networks] and Advanced Digital Electronics [sequential networks].In light of my experiences from the past three semesters I partly agree with the previous reviewer, and am becoming convinced that it may be more appropriate to teach these two courses from two different books, and pick an easier material for the introductory digital course. (My choice for such a book would be Katz-Borriello: Contemporaty Logic Design, 2nd edition; it also covers synchronous sequential networks well.) However, I still believe that Givone’s book is an excellent reference material, particularly because of its theoretically sound, exhaustive discussion of the topics. I also believe that it’s the primary responsibility of the educator to serve as an interface between students

and the textbook. The textbook's responsibility is to back the instructor with all relevant material the instructor decides to use, and this book is doing an outstanding job at it.

Thank you for providing the book for lowest price possible! I would highly recommend the seller and the product to my friends. The book is very detailed and you can learn a lot from it, especially if you are taking ENES-244. Thanks once again!

The book is terrible at explaining things, but the practice exercises really force you to understand the concepts. Bang your head against it enough and things become intuitive. Picked it up used for $30, and at that price it's hard to complain.

Purchased used for my daughters college course. Item arived quickly and as described. Love used textbooks as they save me huge $$. Pay attention to the descriptions if you need the CD that are packaged with new books as they are not always included when ordering used copies. order history makes figuring tax deductions easy if you loose the receipt/packing slips.

This book is NOT for introductory courses. Seriously the way it is covered it is way too advanced for someone who is new to digital logics.

This book is terrible and is really out dated. The included software doesn't run on Windows Vista, 7, or 8 without really working at getting it to work.The text itself is also really written badly and it difficult to learn anything from.

This is a great book for reference. I felt that some chapters were not too clear, but overall the author makes a good job.

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