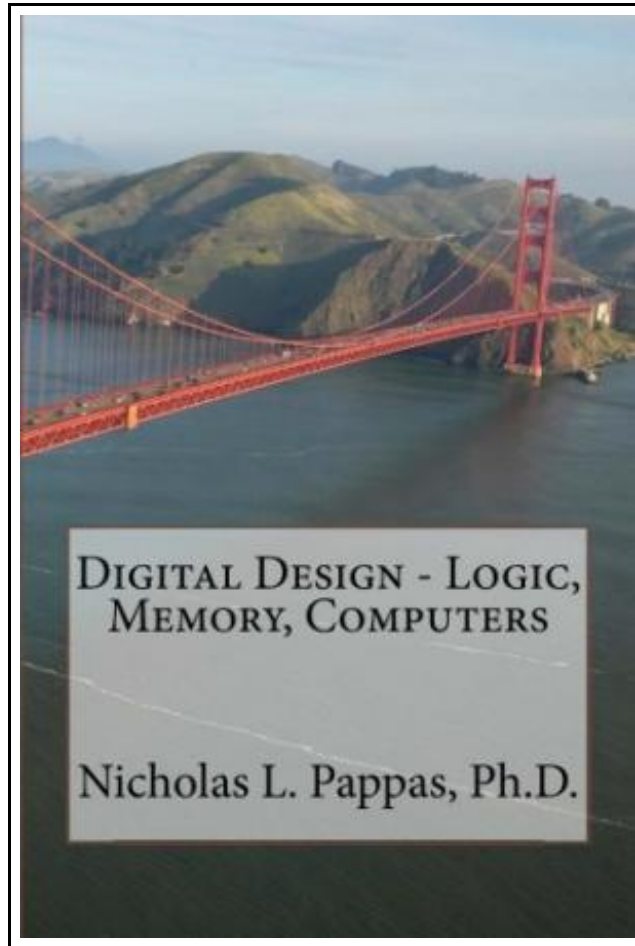# Digital Design - Logic, Memory, Computers

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Reviews

Very helpful for all category of men and women. It is rally fascinating throgh studying period. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Prof. Asia King)

DIGITAL DESIGN - LOGIC, MEMORY, COMPUTERS

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Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Electrical and Electronic Engineering Design Series Volume 3 This university level Electrical Engineering text is for anyone who wants to know how to design products using digital logic circuits. The present text is unusually accessible to readers who want to acquire the skills of digital design. We present a thorough foundation so that you can proceed to learn how to design any digital system. This text is different from the many introductory digital design texts, because we actually design a product by implementing a design and not just talk about logic circuits used in a digital circuit. And, we ask you to work hard doing experiments so that you acquire real world experience with commercially available digital circuits. In other words this is about real learning. We start at the beginning by presenting a top down design method for digital systems. We learn about three basic tools necessary to execute any digital design - Truth Tables, Karnaugh maps, and Switching Algebra. The basic circuits of digital logic are building blocks without memory. They are standard commercially available logic circuits, which are described and their equations are presented. We only use standard products. Furthermore we show how to use mixed logic that simplifies digital design. The ASM (algorithmic state machine) chart, a fourth tool, is the preferred way to implement the algorithm representing the product you want to design. We show how to implement ASM charts, derive truth tables from them, and how to convert the truth tables to digital circuits. The ASM-chart-to-product process is straightforward. The design of complex building blocks with memory is based on elementary blocks with one bit memory also known as flip-flops. Designs are...

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