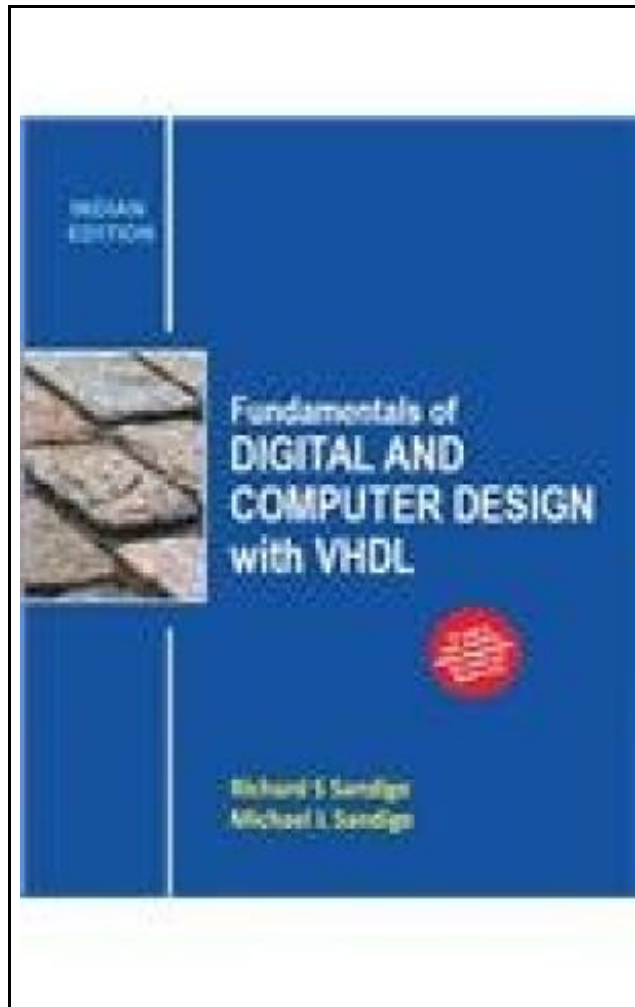# Fundamentals of Digital and Computer Design with VHDL (Indian Edition)

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Reviews

This pdf might be well worth a study, and a lot better than other. It really is simplistic but excitement inside the fifty percent in the book. Its been printed in an exceedingly straightforward way which is just after i finished reading this ebook through which really modified me, modify the way i believe.
(Derick Brekke)

FUNDAMENTALS OF DIGITAL AND COMPUTER DESIGN WITH VHDL (INDIAN EDITION)

McGraw Hill Education, 2014. Softcover. Book Condition: New. First edition. This text is intended for an introductory digital design course for students at the freshman level; it also is intended for an introductory computer design course with assembly language programming for students at the sophomore level. This text uses a spiral teaching approach by introducing a design problem and then, in the same chapter or a later chapter, either (1) reemphasizing the same concepts when a different design is presented, or (2) working the same problem using a different technique. This is done to increase the likelihood of retention. Salient Features ? VHDL is introduced in the first chapter using just Boolean functions. This prepares students to use VHDL early in their laboratory experiments. ? Homework problems are keys to each section, for instructor and student convenience. Homework solutions will be made available to instructors via the web. ? A special program called EASY1 (Editor/Assembler/Simulator for VBC1 (Very Basic Computer 1)) is provided to help students learn how to write and test assembly language for VBC1 Contents: 1 Boolean Algebra, Boolean Functions, VHDL, and Gates 2 Number Conversions, Codes, and Function Minimization 3 Introduction to Logic Circuit Analysis and Design 4 Combinational Logic Circuit Design with VHDL 5 Bistable Memory Device Design with VHDL 6 Simple Finite State Machine Design with VHDL 7 Computer Circuits 8 Circuit Implementation Techniques 9 Complex Finite State Machine Design with VHDL 10 Basic Computer Architectures 11 Assembly Language Programming for VBC1 12 Designing Input/Output Circuits 13 Designing Instruction Memory, Loading Program Counter, and Debounced Circuit 14 Designing Multiplexed Display Systems 15 Designing Instruction Decoders 16 Designing Arithmetic Logic Units 17 Completing the Design for VBC1 18 Assembly Language Programming for VBC1-E 19 Designing Input/Output Circuits for VBC1-E 20 Designing the Data Memory Circuit for...

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