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covers the design of a plethora of combinational and sequential logic circuits using conventional logic design and Verilog HDL. Number systems and number representations are presented along with various Page 67/86

binary codes. Several on advanced topics are covered, including functional decomposition and iterative networks. A variety of examples are provided for combinational and sequential logic, computer arithmetic, Page 68/86

and advanced topics such as Hamming code error correction. Constructs supported by Verilog are described in detail. All designs are continued to completion. Each chapter includes numerous design Page 69/86

issues of varying complexity to be resolved by the reader.

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circuits. The text ptovides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism. It emphasizes the synthesis of circuits and explains how circuits are Page 71/86

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language/so it is introduced gradually in the book. Each VHDL feature is presented as it becomes pertinent for the circuits being discussed. While it includes a discussion of VHDL, the book provides thorough coverage Page 73/86

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works. Beginning with on digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. Page 78/86

SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with Page 79/86

practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course Page 80/86

that combines digital logic and computer architecture or students taking a twoquarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and Page 81/86

reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and Page 82/86

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website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion Page 84/86

website also includes on appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

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