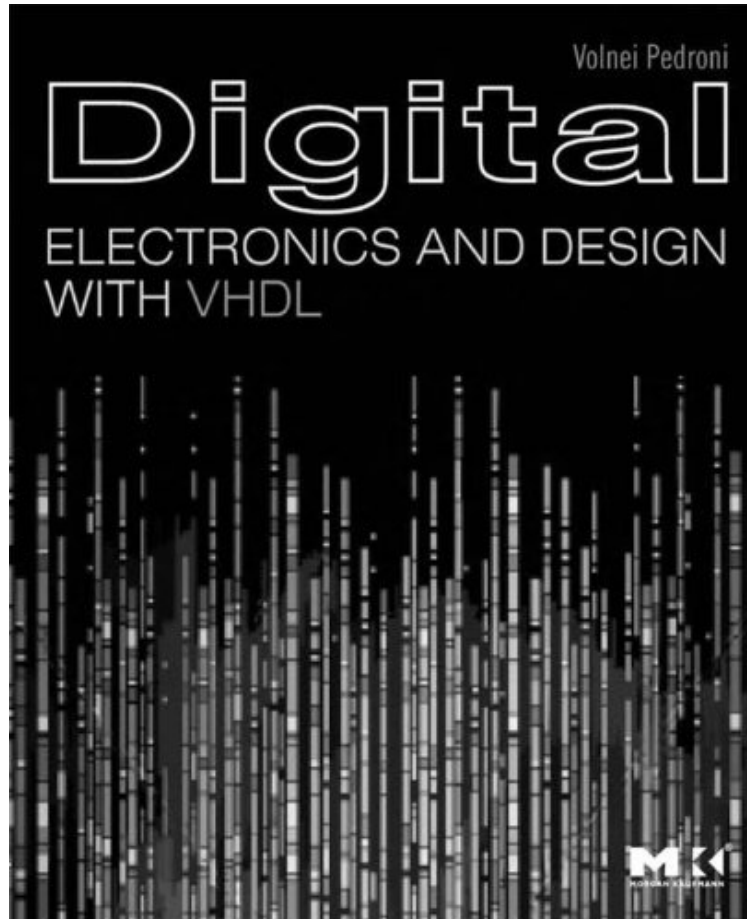


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Digital Electronics and Design with VHDL

Von Volnei A. Pedroni

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Von Volnei A. Pedroni : Digital Electronics and Design with VHDL before purchasing it in order to gage whether or not it would be worth my time, and all praised Digital Electronics and Design with VHDL:

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Very good Textbook on Digital Electronics with Introduction to VHDLVon NicoThis book covers all relevant aspects of digital electronics including a good introduction to VHDL. I think it would be a valuable resource for basic digital electronics classes at the university level as well as a good reference book for working engineers who want to recap the digital fundamentals of their discipline or who are looking for an introduction to learn VHDL.

KurzbeschreibungDigital Electronics and Design with VHDL offers a friendly presentation of the fundamental principles and practices of modern digital design. Unlike any other book in this field, transistor-level implementations

are also included, which allow the readers to gain a solid understanding of a circuit's real potential and limitations, and to develop a realistic perspective on the practical design of actual integrated circuits. Coverage includes the largest selection available of digital circuits in all categories (combinational, sequential, logical, or arithmetic); and detailed digital design techniques, with a thorough discussion on state-machine modeling for the analysis and design of complex sequential systems. Key technologies used in modern circuits are also described, including Bipolar, MOS, ROM/RAM, and CPLD/FPGA chips, as well as codes and techniques used in data storage and transmission. Designs are illustrated by means of complete, realistic applications using VHDL, where the complete code, comments, and simulation results are included. This text is ideal for courses in Digital Design, Digital Logic, Digital Electronics, VLSI, and VHDL; and industry practitioners in digital electronics.

Comprehensive coverage of fundamental digital concepts and principles, as well as complete, realistic, industry-standard designs. Many circuits shown with internal details at the transistor-level, as in real integrated circuits. Actual technologies used in state-of-the-art digital circuits presented in conjunction with fundamental concepts and principles. Six chapters dedicated to VHDL-based techniques, with all VHDL-based designs synthesized onto CPLD/FPGA chips.

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