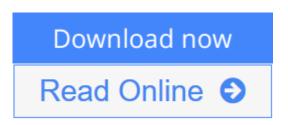


VHDL By Example: Fundamentals of Digital Design

By Richard E. Haskell, Darrin M. Hanna



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This book assumes no previous knowledge of digital design. You start at the beginning learning about basic gates, logic equations, Boolean algebra, and Karnaugh maps. Over 65 examples show how to design digital circuits using VHDL and simulate them using the Aldec Active-HDL simulator. A free student edition of the Aldec Active-HDL simulator is available from Aldec, Inc. (www.aldec.com). A new pedagogical method called "flipping" has been shown to be very effective in enhancing the classroom experience. Instead of coming to class unprepared and listening to an hour lecture and then going home to do homework, the order is "flipped" and you first watch short video clips online about a particular topic, and then the class time can be used to do "homework" problems, discussion, and answering questions. Over 110 short video clips that cover all of the material in this book are available free on YouTube. To find these, go to www.youtube.com/user/LBEbooks/playlists and click on Digital Design VHDL.

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Editorial Review

About the Author

Richard E. Haskell is Emeritus Professor of Engineering in the Department of Electrical and Computer Engineering at Oakland University in Rochester, Michigan. He received his Ph.D. from Rensselaer Polytechnic Institute in 1963. He served on the faculty at Oakland University for 46 years, where he developed and taught a wide variety of undergraduate and graduate courses, including courses in electromagnetic theory, coherent optics, pattern recognition, computer programming, microprocessors, embedded systems and digital design. His research interests included plasma physics, holography and coherent optics, pattern recognition and image processing, computer learning, and microprocessor applications and embedded systems. He is the author of over 30 books, ranging from Plasma Dynamics to Digital Design. Darrin Hanna is Associate Professor of Engineering in Oakland University's School of Engineering and Computer Science. Dr. Hanna received his Ph.D. in Systems Engineering from Oakland University in May 2003 after receiving the university's three top awards in scholarship, mathematics and engineering. His research interests include reconfigurable embedded systems, artificial intelligence, and problem-based learning in computer science and engineering. Complementary to his coursework, Dr. Hanna has also successfully transferred research into commercial applications, winning the Michigan Economic Development Corporation's Michigan Commercialization Success Award. He has taught numerous undergraduate and graduate courses in engineering problem-solving, microprocessors, reconfigurable embedded systems, and digital design using VHDL. A member of IEEE and ASEE, Dr. Hanna actively contributes to the teacher-scholar community, winning the ASEE North Central Section's best paper awards for three consecutive years and the 2007 IEEE Computer Society's Undergraduate Computer Science and Engineering Teaching Award.

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