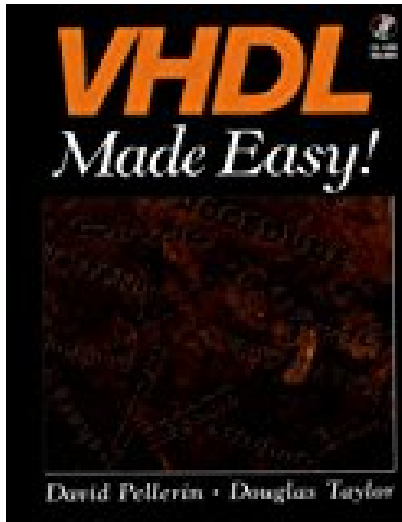


VHDL Made Easy!



BOOK DETAILS

- Author : David Pellerin
- Pages : 432 Pages
- Publisher : Prentice Hall PTR
- Language : English
- ISBN : 0136507638

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BOOK SYNOPSIS

VHDL and FPLDs in Digital Systems Design, Prototyping and Customization treats three aspects of digital systems: design, prototyping and customization, in an integrated manner using two technologies. The two technologies are VHSIC Hardware Description Language (VHDL) and Field-Programmable Logic Devices (FPLDs). VHDL is used for modeling and specification; FPLDs are used for implementation. VHDL and FPLDs in Digital Systems Design, Prototyping and Customization is divided into three parts. Part I provides an introduction to the basic features of VHDL with emphasis on modeling and design. All types of VHDL models including behavioral, structural and dataflow models are presented. Part 2 is a bridge to designing and prototyping using FPLDs as the prototyping and implementation technology. Part 3 contains a number of examples and case studies that demonstrate the effectiveness of using VHDL and FPLDs in the design of real systems. VHDL and FPLDs in Digital Systems Design, Prototyping and Customization is an invaluable comprehensive reference for the digital designer. This work includes examples and software tied to real-world FPLDs. The reader can see how the material presented applies to real-world devices and can experiment with the software. Also included are large-scale designs like the FLIX microcomputer that demonstrates the power of VHDL.

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