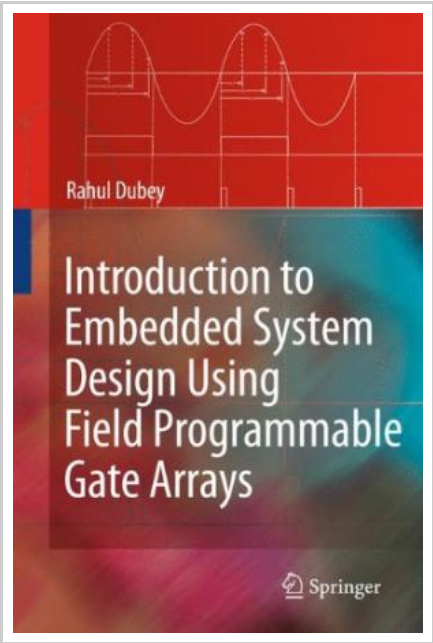

Introduction to Embedded System Design Using Field Programmable Gate Arrays (Hardback)

By Rahul Dubey

Springer London Ltd, United Kingdom, 2008. Hardback. Book Condition: New. 2nd Printing.. 228 x 153 mm. Language: English . Brand New Book. Introduction to Embedded System Design Using Field Programmable Gate Arrays provides a starting point for the use of field programmable gate arrays in the design of embedded systems. The text considers a hypothetical robot controller as an embedded application and weaves around it related concepts of FPGA-based digital design. The book details: use of FPGA vis-a-vis general purpose processor and microcontroller; design using Verilog hardware description language; digital design synthesis using Verilog and Xilinx(R) SpartanTM 3 FPGA; FPGA-based embedded processors and peripherals; overview of serial data communications and signal conditioning using FPGA; FPGA-based motor drive controllers; and prototyping digital systems using FPGA. The book is a good introductory text for FPGA-based design for both students and digital systems designers. Its end-of-chapter exercises and frequent use of example can be used for teaching or for self-study.

Reviews

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