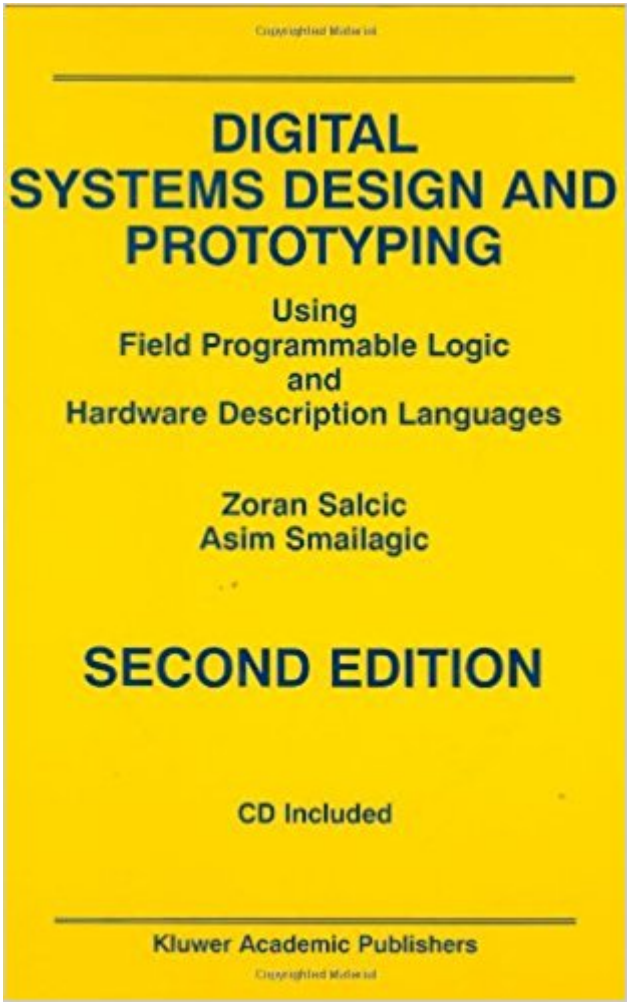
# Digital Systems Design And Prototyping: Using Field Programmable Logic And Hardware Description Languages



## Synopsis

Digital Systems Design and Prototyping: Using Field Programmable Logic and Hardware Description Languages, Second Edition covers the subject of digital systems design using two important technologies: Field Programmable Logic Devices (FPLDs) and Hardware Description Languages (HDLs). These two technologies are combined to aid in the design, prototyping, and implementation of a whole range of digital systems from very simple ones replacing traditional glue logic to very complex ones customized as the applications require. Three HDLs are presented: VHDL and Verilog, the widely used standard languages, and the proprietary Altera HDL (AHDL). The chapters on these languages serve as tutorials and comparisons are made that show the strengths and weaknesses of each language. A large number of examples are used in the description of each language providing insight for the design and implementation of FPLDs.Ã Â With the addition of the Altera UP-1 prototyping board, all examples can be tested and verified in a real FPLD. Digital Systems Design and Prototyping: Using Field Programmable Logic and Hardware Description Languages, Second Edition is designed as an advanced level textbook as well as a reference for the professional engineer.

## Book Information

Hardcover: 621 pages

Publisher: Springer; 2nd edition (October 31, 2000)

Language: English

ISBN-10: 0792379209

ISBN-13: 978-0792379201

Product Dimensions: 6.1 x 1.4 x 9.2 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,539,300 in Books (See Top 100 in Books) #95 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Logic #677 inÃ Â Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #984 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Digital Design



Digital Systems Design and Prototyping: Using Field Programmable Logic and Hardware Description Languages Programmable Logic Controllers: Hardware and Programming

Programmable Logic Controllers: Hardware and Programming - Laboratory Manual FPGA-Based Prototyping Methodology Manual: Best Practices in Design-For-Prototyping The Hardware Hacker: Adventures in Making and Breaking Hardware Rapid Prototyping of Digital Systems Rapid Prototyping of Digital Systems: SOPC Edition Rapid Prototyping Software for Avionics Systems: Model-oriented Approaches for Complex Systems Certification (Iste) RTL Hardware Design Using VHDL: Coding for Efficiency, Portability, and Scalability Description of the Colt's double-action revolver, caliber .38, with rules for management, memoranda of trajectory, and description of ammunition Description of the Colt's double-action revolver, caliber .38, with rules for management, memoranda of trajectory, and description of ammunition ... April 1, 1905. Rev. Oct. 3, 1908 Advanced Digital Logic Design Using VHDL, State Machines, and Synthesis for FPGA's Additive Manufacturing Technologies: 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Fundamentals of Programmable Logic Controllers, Sensors, and Communications (3rd Edition) Mitsubishi FX Programmable Logic Controllers, Second Edition: Applications and Programming Programmable Logic Controllers: Principles and Applications (5th Edition) Mitsubishi FX Programmable Logic Controllers: Applications and Programming Programmable Logic Handbook: PLDs, CPLDs and FPGAs Programmable Logic Controllers: Programming Methods and Applications Programmable Logic Controllers