



# Field Programmable Gate Array (FPGA) and Their Applications

*S. S. S. P. Rao*

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Since Field Programmable gate arrays belong to the family of programmable devices and designing with FPGAs require knowledge of Digital design, the book begins with an overview of Boolean Algebra and Logic Design followed by topic on Programmable Logic Devices. Introduction to Field programmable devices (FPGAs) is then explained right from the basic FPGA which was used as glue logic to present day very advanced FPGA used in Embedded Systems and goes on to discuss evolution of Xilinx, Altera and Actel/Microsemi FPGAs and their architectural features, and VHDL with many design examples with a brief introduction to System Verilog. The last three chapters discuss completely the Xilinx FPGA design flow right from architectural specification to obtaining bit stream to be loaded into FPGA and testing methodologies and design exercises using Spartan Series and the important research issues of FPGA Security alongwith the Future of FPGAs for the next two decades.



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