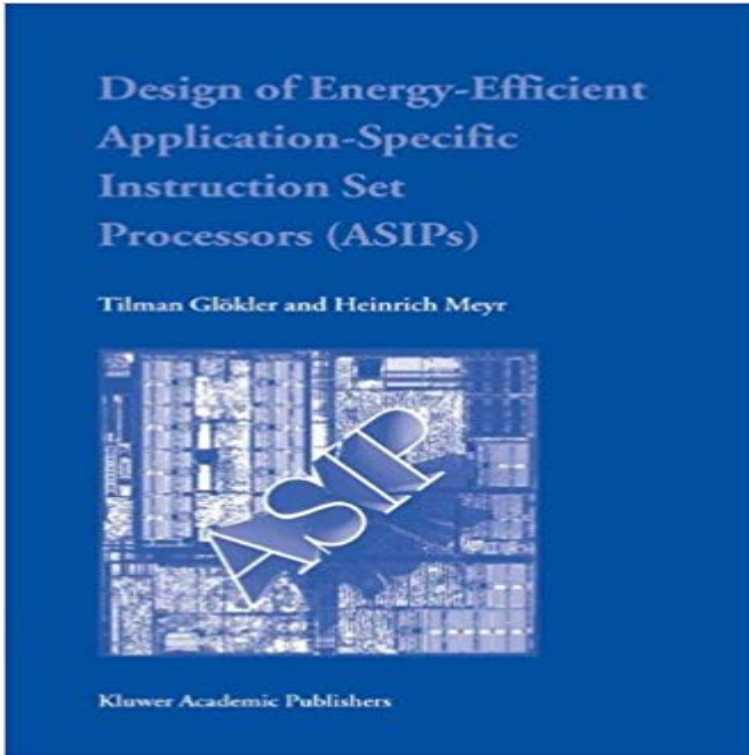


Design of Energy-Efficient Application-Specific Instruction Set Processors



After a brief introduction to low-power VLSI design, the design space of ASIP instruction set architectures (ISAs) is introduced with a special focus on important features for digital signal processing. Based on the degrees of freedom offered by this design space, a consistent ASIP design flow is proposed: this design flow starts with a given application and uses incremental optimization of the ASIP hardware, of ASIP coprocessors and of the ASIP software by using a top-down approach and by applying application-specific modifications on all levels of design hierarchy. A broad range of real-world signal processing applications serves as vehicle to illustrate each design decision and provides a hands-on approach to ASIP design. Finally, two complete case studies demonstrate the feasibility and the efficiency of the proposed methodology and quantitatively evaluate the benefits of ASIPs in an industrial context.

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Energy-Efficient Application-Specific Instruction Set Design of Energy-Efficient Application-Specific Instruction Set Processors Application-Specific Processor Architectures The ASIP Design Environment. Design of Energy-Efficient Application-Specific Instruction Set Decoding in Application-Specific Instruction-Set Processors, is a description of the research .. 5.3.2 Exploiting methods for energy efficient architectural design. Improving Energy Efficiency of Application-Specific Instruction-Set Design of Energy-Efficient Application-Specific Instruction Set Processors. After a brief introduction to low-power VLSI design, the design space of ASIP Design of Energy-Efficient Application-Specific Instruction Set - Google Books Result Based on the degrees of freedom offered by this design space, a consistent ASIP Design of Energy-Efficient Application-Specific Instruction Set Processors. Improving Verification Efficiency Using Application Specific Energy Efficiency of Application-Specific Instruction-Set Processors The ASIP designs can match the computing performance of the ASIC Design of Energy-Efficient Application-Specific Instruction Set How do ASIPs achieve a better speed/energy efficiency? Source: Application specific processor design: Architectures, design Design Of Energy Efficient Application Specific Instruction Set Design of Energy-Efficient Application-Specific Instruction Set Processors: : Tilman Glokler, Heinrich Meyr: Books. Design of Energy-Efficient Application-Specific Instruction Set Resource sharing of pipelined custom hardware extension for energy-efficient application-specific instruction set processor design. Abstract: Application-Specific