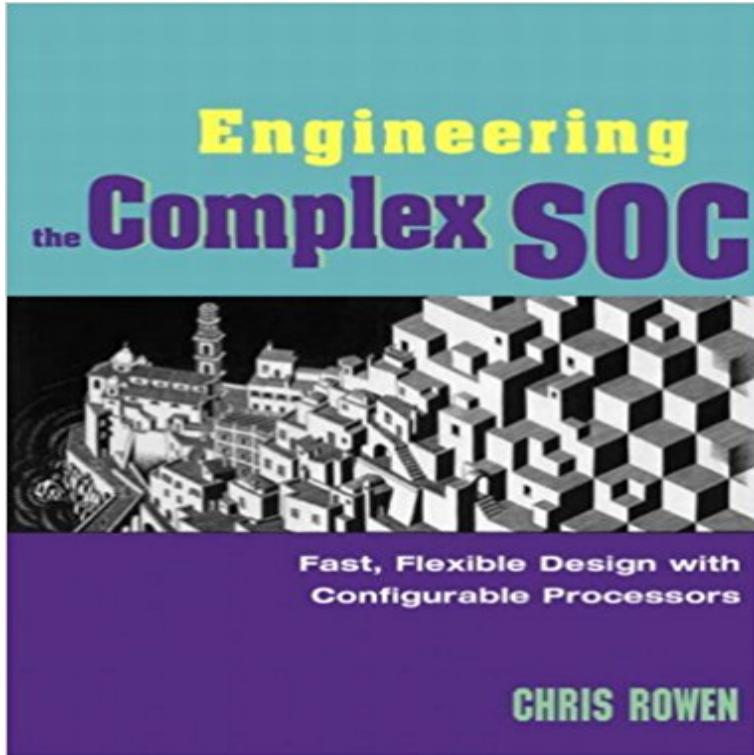


Engineering the Complex SOC: Fast, Flexible Design with Configurable Processors



Engineering the Complex SOC The first unified hardware/software guide to processor-centric SOC design Processor-centric approaches enable SOC designers to complete far larger projects in far less time. Engineering the Complex SOC is a comprehensive, example-driven guide to creating designs with configurable, extensible processors. Drawing upon Tensilica's Xtensa architecture and TIE language, Dr. Chris Rowen systematically illuminates the issues, opportunities, and challenges of processor-centric design. Rowen introduces a radically new design methodology, then covers its essential techniques: processor configuration, extension, hardware/software co-generation, multiple processor partitioning/communication, and more. Coverage includes: Why extensible processors are necessary: shortcomings of current design methods Comparing extensible processors to traditional processors and hardwired logic Extensible processor architecture and mechanisms of processor extensibility Latency, throughput, coordination of parallel functions, hardware interconnect options, management of design complexity, and other issues Multiple-processor SOC architecture for embedded systems Task design from the viewpoints of software and hardware developers Advanced techniques: implementing complex state machines, task-to-task synchronization, power optimization, and more Toward a sea of processors: Long-term trends in SOC design and semiconductor technology

For all architects, hardware engineers, software designers, and SOC program managers involved with complex SOC design; and for all managers investing in SOC designs, platforms, processors, or expertise. PRENTICE HALL Professional Technical Reference Upper Saddle River, NJ 07458 www.phptr.com

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