Reuse Methodology Manual

For System-on-a-Chip Designs

Third Edition

Michael Keating

Pierre Bricaud

Reuse Methodology Manual For Systemonachip Designs

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Reuse Methodology Manual For Systemonachip Designs:

Reuse Methodology Manual Pierre Bricaud,2012-12-06 Silicon technology now allows us to build chips consisting of tens of millions of transistors This technology not only promises new levels of system integration onto a single chip but also presents significant challenges to the chip designer As a result many ASIC developers and silicon vendors are re examining their design methodologies searching for ways to make effective use of the huge numbers of gates now available These designers see current design tools and methodologies as inadequate for developing million gate ASICs from scratch There is considerable pressure to keep design team size and design schedules constant even as design complexities grow Tools are not providing the productivity gains required to keep pace with the increasing gate counts available from deep submicron technology Design reuse the use of pre designed and pre verified cores is the most promising opportunity to bridge the gap between available gate count and designer productivity Reuse Methodology Manual for System On A Chip Designs Second Edition outlines an effective methodology for creating reusable designs for use in a System on a Chip SoC design methodology Silicon and tool technologies move so quickly that no single methodology can provide a permanent solution to this highly dynamic problem Instead this manual is an attempt to capture and incrementally improve on current best practices in the industry and to give a coherent integrated view of the design process Reuse Methodology Manual for System On A Chip Designs Second Edition will be updated on a regular basis as a result of changing technology and improved insight into the problems of design reuse and its role in producing high quality SoC designs **Reuse Methodology Manual for System-On-a-Chip Designs** Pierre Bricaud,2014-09-01 *Reuse Methodology Manual for System-on-a-Chip Designs* Pierre Bricaud,2007-05-08 This revised and updated third edition outlines a set of best practices for creating reusable designs for use in an System on a Chip SoC design methodology These practices are based on the authors experience in developing reusable designs as well as the experience of design teams in many companies around the world *Reuse Methodology Manual for System-on-a-chip Designs* Michael Keating,Pierre Bricaud,1999 Silicon technology now allows us to build chips consisting of tens of millions of transistors This technology not only promises new levels of system integration onto a single chip but also presents significant challenges to the chip designer As a result many ASIC developers and silicon vendors are re examining their design methodologies searching for ways to make effective use of the huge numbers of gates now available Design reuse the use of pre designed and pre verified cores is the most promising opportunity to bridge the gap between available gate count and designer productivity Reuse Methodology Manual for System On A Chip Designs Second Edition outlines an effective methodology for creating reusable designs for use in a System on a Chip SoC design methodology Silicon and tool technologies move so quickly that no singlemethodology can provide a permanent solution to this highly dynamic problem Instead this manual is an attempt to capture and incrementally improve on current best practices in the industry and to give a coherent integrated view of the design process **SOC (System-on-a-Chip) Testing for Plug and**

Play Test Automation Krishnendu Chakrabarty,2013-04-17 System on a Chip SOC integrated circuits composed of embedded cores are now commonplace Nevertheless there remain several roadblocks to rapid and efficient system integration Test development is seen as a major bottleneck in SOC design and manufacturing capabilities Testing SOCs is especially challenging in the absence of standardized test structures test automation tools and test protocols In addition long interconnects high density and high speed designs lead to new types of faults involving crosstalk and signal integrity SOC System on a Chip Testing for Plug and Play Test Automation is an edited work containing thirteen contributions that address various aspects of SOC testing SOC System on a Chip Testing for Plug and Play Test Automation is a valuable reference for researchers and students interested in various aspects of SOC testing International Symposium on Quality Electronic Design ,2002 Annotation Fifty one papers and 21 posters from the March 2002 symposium report current research in deep submicron integrated circuit design and development The sessions address interconnect extraction and modeling design for process variations metrics power and noise management verification signal integrity and low power design techniques Some of the topics are transition aware global signaling TAGS the interoperability of EDA tools for sequential logic synthesis statistical methods for the determination of process corners power supply noise suppression via clock skew scheduling and the relation between SAT and BDDs for equivalence checking No subject index Annotation copyrighted by Book News Inc Portland OR **Proceedings of the IEEE 1999 Custom Integrated Circuits Conference** ,1999 *IEEE International Symposium on Circuits and Systems* IEEE Circuits and Systems Society,2003 These volumes relate to matters discussed during the 2003 IEEE International Symposium on Circuits and Systems such as analogue circuits and signal processing communications multimedia systems and applications general and nonlinear circuits and systems and neural networks and systems Reuse in Electronic Design Peter Conradi,1999-06-02 Reuse in Electronic Design From Information Modelling to Intellectual Properties Peter Conradi Berlin Germany Reuse of existing IC intellectual property blocks is currently the hot topic in electronic design automation By cutting development time and improving designer productivity reuse offers a faster time to market and consequently increased profitability Conradi encompasses the fundamentals of physical system modelling design methodologies and basic design architectures plus reuse strategies and tasks Features include Graph oriented visualisations enabling the reader to understand the requirements of future interdisciplinary design tools Guidance on information modelling languages system classification and decomposition of systems under development Section on reuse strategies and tasks examining the practical aspects of the technique for both analogue and digital design Data management and retrieval methods including the algebra of the selection process Comprehensive appendices covering fine grained design representations VLSI design standards and data model extraction of a VHDL multiplier design This timely exposition of design capture and manipulation techniques will be a boon for postgraduate electronics students and researchers CAD engineers and electronic designers will profit from the industry examples and the practical applications of the reuse cycle

IEEE International Workshop on Rapid Systems Prototyping IEEE Computer Society. Technical Committee on Simulation,1999 Contains papers from a June 1999 workshop which brought together system designers model and tool developers integrated circuit designers and software engineers to explore problems and techniques in the area of rapid system prototyping Papers focus on models for system simulation emulation in a hierarchical sense software to hardware mapping software prototyping and validation prototyping environments of hardware simulators and experiences from specific system prototyping projects Contains sections on communication and distributed systems reconfigurable architectures reuse formal methods design methodologies interface technologies and FPGA based design Lacks a subject index Annotation copyrighted by Book News Inc Portland OR **15th Symposium on Integrated Circuits and Systems Design** Ricardo Augusto da Luz Reis,Ney Calazans,2002 *Network Processors* Panos C. Lekkas,2003-06-21 Network processing units NPUs will be the occasion of sweeping changes in the network hardware industry over the next few years This new breed of microchip impacts chip designers like Intel equipment vendors like Cisco application developers like IBM and Morotola and an army of software engineers who spent the last decade working on protocols and network management solutions A thoroughly practical dissection of the early NPU market this designer s guide explains how network processors work and provides detailed information on all major commercial architectures from features to design considerations Comparative tables are a rich source of cross industry info Coverage includes traffic managers classification chips content addressable memories switch fabrics security accelerators storage coprocessors and NetASICs *12th International Workshop on Rapid System Prototyping* IEEE Computer Society. Design Automation Technical Committee,2001 The proceedings from the June 2001 conference in Monterey California include 30 papers on hardware case studies reconfiguring computing communications systems distributed prototyping systems modeling model based prototyping efficient evaluation methodologies and tools Keynote addresses on *Proceedings* ,2005 **System on Package** Rao Tummala,2007-07-22 System on Package SOP is an emerging microelectronic technology that places an entire system on a single chip size package Where systems used to be bulky boxes housing hundreds of components SOP saves interconnection time and heat generation by keep a full system with computing communications and consumer functions all in a single chip Written by the Georgia Tech developers of the technology this book explains the basic parameters design functions and manufacturing issues showing electronic designers how this radical new packaging technology can be used to solve pressing electronics design challenges **Independent Component Analyses, Wavelets, Unsupervised Nano-biomimetic Sensors, and Neural Networks V** Harold H. Szu,Jack Agee,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *IEEE International Conference on Electronics, Circuits and Systems* ,2002

VLSI Circuits and Systems ,2003 FPGA-based Implementation of Signal Processing Systems Roger Woods,2008-11-24 The automation of the techniques for component architectural synthesis computational models and the reduction of energy consumption to help improve FPGA performance are given in detail FPGA based Implementation of Signal Processing Systems is an important reference for practising engineers and researchers working on the design and development of DSP systems for radio telecommunication information audio visual and security applications Senior level electrical and computer engineering graduates taking courses in signal processing or digital signal processing shall also find this volume of interest BOOK JACKET *Proceedings of the ... International Conference on Microelectronics* ,2000

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