



Reuse Techniques for VLSI Design

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Reuse Techniques For Vlsi Design

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Reuse Techniques for VLSI Design Ralf Seepold, Arno Kunzmann, 1999-03-31 Reuse Techniques for VLSI Design is a reflection on the current state of the art in design reuse for microelectronic systems To that end it is the first book to garner the input of leading experts from both research and application areas These experts document herein not only their more mature approaches but also their latest research results Firstly it sets out the background and support from international organisations that enforce System on a Chip SoC design by reuse oriented methodologies This overview is followed by a number of technical presentations covering different requirements of the reuse domain These are presented from different points of view i e IP provider IP user designer isolated reuse intra company or inter company reuse More general systems or case studies e g metrics are followed by comprehensive reuse systems e g reuse management systems partly including business models Since design reuse must not be restricted to digital components mixed signal and analog reuse approaches are also presented In parallel to the digital domain this area covers research in reuse database design Design verification and legal aspects are two important topics that are closely related to the realization of design reuse These hot topics are covered by presentations that finalize the survey of outstanding research development and application of design reuse for SoC design Reuse Techniques for VLSI Design is an invaluable reference for researchers and engineers involved in VLSI ASIC design

Reuse Techniques for VLSI Design Ralf Seepold, Arno Kunzmann, 2012-12-06 Reuse Techniques for VLSI Design is a reflection on the current state of the art in design reuse for microelectronic systems To that end it is the first book to garner the input of leading experts from both research and application areas These experts document herein not only their more mature approaches but also their latest research results Firstly it sets out the background and support from international organisations that enforce System on a Chip SoC design by reuse oriented methodologies This overview is followed by a number of technical presentations covering different requirements of the reuse domain These are presented from different points of view i e IP provider IP user designer isolated reuse intra company or inter company reuse More general systems or case studies e g metrics are followed by comprehensive reuse systems e g reuse management systems partly including business models Since design reuse must not be restricted to digital components mixed signal and analog reuse approaches are also presented In parallel to the digital domain this area covers research in reuse database design Design verification and legal aspects are two important topics that are closely related to the realization of design reuse These hot topics are covered by presentations that finalize the survey of outstanding research development and application of design reuse for SoC design Reuse Techniques for VLSI Design is an invaluable reference for researchers and engineers involved in VLSI ASIC design

Reuse Techniques for VLSI Design Workshop Reuse Techniques for VLSI Design (2, 1998, Karlsruhe), Forschungszentrum Informatik (Karlsruhe), 1999 **Proceedings** Workshop Reuse Techniques for VLSI Design. 2, 1998, Karlsruhe, 1998 **System Level Design Model with Reuse of System IP** Patrizia Cavalloro, Christophe

Gendarme, Klaus Kronlöf, Jean Mermet, J. van Sas, Kari Tiensyrjä, Nikolaos Voros, 2007-05-08 This book addresses system design providing a framework for assessing and developing system design practices that observe and utilise reuse of system design know how The know how accumulated in the companies represents an intellectual asset or property IP *Virtual Components Design and Reuse* Ralf Seepold, Natividad Martinez Madrid, 2013-06-29 Design reuse is not just a topic of research but a real industrial necessity in the microelectronic domain and thus driving the competitiveness of relevant areas like for example telecommunication or automotive Most companies have already dedicated a department or a central unit that transfer design reuse into reality All main EDA conferences include a track to the topic and even specific conferences have been established in this area both in the USA and in Europe Virtual Components Design and Reuse presents a selection of articles giving a mature and consolidated perspective to design reuse from different points of view The authors stem from all relevant areas research and academia IP providers EDA vendors and industry Some classical topics in design reuse like specification and generation of components IP retrieval and cataloguing or interface customisation are revisited and discussed in depth Moreover new hot topics are presented among them IP quality platform based reuse software IP IP security business models for design reuse and major initiatives like the MEDEA EDA Roadmap **System-on-Chip Methodologies & Design Languages** Peter J. Ashenden, Jean Mermet, Ralf Seepold, 2013-03-14 System on Chip Methodologies the Forum on Design Languages FDL held in Europe and the Asia Pacific Chip Design Language APChDL Conference The papers cover a range of topics including design methods specification and modeling languages tool issues formal verification simulation and synthesis The results presented in these papers will help researchers and practicing engineers keep abreast of developments in this rapidly evolving field Advances in Case-Based Reasoning Susan Craw, Alun Preece, 2003-08-02 The papers collected in this volume were presented at the 6th European Conference on Case Based Reasoning ECCBR 2002 held at The Robert Gordon University in Aberdeen UK This conference followed a series of very successful well established biennial European workshops held in Trento Italy 2000 Dublin Ireland 1998 Lausanne Switzerland 1996 and Paris France 1994 after the initial workshop in Kaiserslautern Germany 1993 These meetings have a history of attracting first class European and international researchers and practitioners in the years interleaving with the biennial international counterpart ICCBR the 4th ICCBR Conference was held in Vancouver Canada in 2001 Proceedings of ECCBR and ICCBR conferences are traditionally published by Springer Verlag in their LNAI series Case Based Reasoning CBR is an AI problem solving approach where problems are solved by retrieving and reusing solutions from similar previously solved problems and possibly revising the retrieved solution to reflect differences between the new and retrieved problems Case knowledge stores the previously solved problems and is the main knowledge source of a CBR system A main focus of CBR research is the representation acquisition and maintenance of case knowledge Recently other knowledge sources have been recognized as important indexing similarity and adaptation knowledge Significant knowledge engineering effort may be needed

for these and so the representation acquisition and maintenance of CBR knowledge more generally have become important

Intellectual Property Protection in VLSI Designs Gang Qu, Miodrag Potkonjak, 2007-05-08 Intellectual Property Protection in VLSI Designs Theory and Practice provides an overview of the security problems in modern VLSI design with a detailed treatment of our newly developed constraint based protection paradigm for the protection of VLSI design IPs from FPGA design to standard cell placement from high level synthesis solutions to gate level netlist place and rout and from advanced CAD tools to physical design algorithms The problem of VLSI design IP protection is much more challenging than the protection of multimedia contents or software and our protection paradigm is also conceptually different from the state of the art approaches in those domains Intellectual Property Protection in VLSI Designs Theory and Practice contains the mathematical foundations for the developed IP protection paradigm detailed pseudo code and descriptions of its many techniques numerous examples and experimental validation on well known benchmarks and clear explanations and comparisons of the many protection methods

Neural and Fuzzy Logic Control of Drives and Power Systems Marcian Cirstea, Andrei Dinu, Malcolm McCormick, Jeen Ghee Khor, 2002-07-01 The authors guide readers quickly and concisely through the complex topics of neural networks fuzzy logic mathematical modelling of electrical machines power systems control and VHDL design Unlike the academic monographs that have previously been published on each of these subjects this book combines them and is based round case studies of systems analysis control strategies design simulation and implementation The result is a guide to applied control systems design that will appeal equally to students and professional design engineers The book can also be used as a unique VHDL design aid based on real world power engineering applications Introduces cutting edge control systems to a wide readership of engineers and students The first book on neuro fuzzy control systems to take a practical applications based approach backed up with worked examples and case studies Learn to use VHDL in real world applications

Handbook of Object Technology Saba Zamir, 1998-12-18 The object oriented paradigm has become one of the dominant forces in the computing world According to a recent survey by the year 2000 more than 80% of development organizations are expected to use object technology as the basis for their distributed development strategies Handbook of Object Technology encompasses the entire spectrum of disciplines and topics related to this rapidly expanding field outlining emerging technologies latest advances current trends new specifications and ongoing research The handbook divides into 13 sections each containing chapters related to that specific discipline Up to date non abstract information provides the reader with practical useful knowledge directly applicable to the understanding and improvement of the reader's job or the area of interest related to this technology Handbook of Object Technology discusses the processes notation and tools for classical OO methodologies as well as information on future methodologies prevalent and emerging OO languages standards and specifications frameworks and patterns databases metrics business objects intranets analysis design tools client server application development environments

IEEE Circuits & Devices, 2000 Experience

Management Ralph Bergmann, 2002-08-28 This book deals with experience management in the context of real world applicability and realistic applications A particular focus is given by the requirements that arise in complex problem solving and by the fact that modern experience management must be implemented as Internet based applications Concrete application areas that are discussed in this book are electronic commerce diagnosis of complex technical equipment and electronic design reuse This book explores how experience management can be supported by information technology especially by techniques that stem from knowledge based systems case based reasoning machine learning and process modeling It surveys different methods in a unified terminology and investigates them with respect to application requirements Further the process of application development and maintenance is highlighted pointing out successful practically proven ways for obtaining and operating experience management applications *2nd Workshop on Libraries, Component Modeling and Quality Assurance* Eugenio Villar Bonet, 1997 Compendio de los trabajos presentados en Toledo durante el 2nd Workshop on Libraries component modeling and quality assurance *Formal Methods in Circuit Design* Victoria Stavridou, 1993-07-22 Graduate level account of hardware verification and algebraic specification *Advances in Case-Based Reasoning* Barry Smyth, Pádraig Cunningham, 1998 This book constitutes the refereed proceedings of the 4th European Workshop on Case Based Reasoning EWCBR 98 held in Dublin Ireland in September 1998 The 41 revised full papers presented were carefully selected and reviewed for inclusion in the proceedings The contributions address the representation and organization of cases in case bases the assessment of case similarity the efficient retrieval of cases from large case bases the adaptation of similar case solutions to fit the current problem case learning and case base maintenance and the application of CBR technology to real world problems *Advances in Case-Based Reasoning* Enrico Blanzieri, Luigi Portinale, 2003-07-31 This book constitutes the refereed proceedings of the 5th European Workshop on Case Based Reasoning EWCBR 2000 held in Trento Italy in September 2000 The 40 revised full papers presented together with two invited contributions were carefully reviewed and selected for inclusion in the book All curves issues in case based reasoning ranging from foundational and theoretical aspects to advanced applications in various fields are addressed *Computer Supported Cooperative Work in Design I* Weiming Shen, Zongkai Lin, Jean-Paul A. Barthès, Tangqiu Li, 2005-11-04 The design of complex artifacts and systems requires the cooperation of multidisciplinary design teams using multiple commercial and non commercial engineering tools such as CAD tools modeling simulation and optimization software engineering databases and knowledge based systems Individuals or individual groups of multidisciplinary design teams usually work in parallel and separately with various engineering tools which are located on different sites often for quite a long time At any moment individual members may be working on different versions of a design or viewing the design from various perspectives at different levels of detail In order to meet these requirements it is necessary to have effective and efficient collaborative design environments These environments should not only automate individual tasks in the manner of traditional computer

aided engineering tools but also enable individual members to share information collaborate and coordinate their activities within the context of a design project CSCW computer supported cooperative work in design is concerned with the development of such environments **System Specification & Design Languages** Eugenio Villar, Jean

Mermet, 2007-05-08 In this fourth book in the CHDL Series a selection of the best papers presented in FDL 02 is published System Specification and Design Languages contains outstanding research contributions in the four areas mentioned above So The Analog and Mixed Signal system design contributions cover the new methodological approaches like AMS behavioral specification mixed signal modeling and simulation AMS reuse and MEMs design using the new modeling languages such as VHDL AMS Verilog AMS Modelica and analog mixed signal extensions to SystemC UML is the de facto standard for SW development covering the early development stages of requirement analysis and system specification The UML based system specification and design contributions address latest results on hot topic areas such as system profiling performance analysis and UML application to complex HW SW embedded systems and SoC design C C for HW SW systems design is entering standard industrial design flows Selected papers cover system modeling system verification and SW generation The papers from the Specification Formalisms for Proven design workshop present formal methods for system modeling and design semantic integrity and formal languages such as ALPHA HANDLE and B VLSI Circuits and Systems ,2005

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