



C1: S contact to D contact

C3: Gate to S/D diffusion

C2: Gate to S/D contact

C4: S contact to D diffusion

Fig FET parasitic capacitances

# Finfet Process Design Manual

**Chao Zhang**



## **Finfet Process Design Manual:**

A Practical Approach to VLSI System on Chip (SoC) Design Veena S. Chakravarthi, 2019-09-25 This book provides a comprehensive overview of the VLSI design process. It covers end to end system on chip SoC design including design methodology, the design environment, tools, choice of design components, handoff procedures, and design infrastructure needs. The book also offers critical guidance on the latest UPF based low power design flow issues for deep submicron SOC designs which will prepare readers for the challenges of working at the nanotechnology scale. This practical guide will provide engineers who aspire to be VLSI designers with the techniques and tools of the trade and will also be a valuable professional reference for those already working in VLSI design and verification with a focus on complex SoC designs. A comprehensive practical guide for VLSI designers. Covers end to end VLSI SoC design flow. Includes source code, case studies, and application examples.

*FinFET/GAA Modeling for IC Simulation and Design* Yogesh Singh Chauhan, Chenming Hu, S. Salahuddin, Girish Pahwa, Avirup Dasgupta, Darsen Lu, Sriramkumar Vanugopalan, Ali Niknejad, Sourabh Khandelwal, Juan Pablo Duarte, Navid Payvadosi, 2024-08-23 FinFET GAA Modeling for IC Simulation and Design Using the BSIM CMG Standard Second Edition is the first book to explain FinFET modeling for IC simulation and the industry standard BSIM CMG describing the rush in demand for advancing the technology from planar to 3D architecture as now enabled by the approved industry standard. The book gives a strong foundation on the physics and operation of FinFET, details aspects of the BSIM CMG model such as surface potential, charge, and current calculations, and includes a dedicated chapter on parameter extraction procedures, thus providing a step by step approach for the efficient extraction of model parameters. With this book, users will learn why you should use FinFET. The physics and operation of FinFET. Details of the FinFET standard model BSIM CMG. Parameter extraction in BSIM CMG. FinFET circuit design and simulation, and more. Authored by the lead inventor and developer of FinFET and developers of the BSIM CMG standard model, providing an expert's insight into the specifications of the standard. A new edition of the original groundbreaking book on the industry standard FinFET model BSIM CMG. New to This Edition: Includes a new chapter providing a comprehensive introduction to GAAFET, including motivations, device concepts, structure, benefits, and the industry standard GAAFET model. Covers the most recent developments in the BSIM CMG model. Presents an updated RF modeling of FinFET using the BSIM CMG model, including parameter extraction. Includes a new chapter on cryogenic modeling.

Catching Up and Leapfrogging Xiao-Shan Yap, Rajah Rasiah, 2016-12-01 Ever since Schumpeter's groundbreaking work, there has been a plethora of new research seeking to extend the direction and dynamics of innovation. Using a rich account of detailed interviews, this book offers new evidence on how latecomers have successfully caught up and leapfrogged incumbent firms. Catching Up and Leapfrogging: The new latecomers in the integrated circuits industry explores how technological transitions affect latecomer catch up strategies and vice versa in a high technology industry. It looks to the East Asian latecomers who towards the end of the twentieth century pioneered a new pathway through organizational

change by specializing in the key production stages of integrated circuits and pushing technologies further This volume assesses how latecomer resource acquisition strategies have varied alongside structural industry changes and evaluates the mechanisms through which firms started life as technology followers and rose to become technology leaders Xiao Shan Yap and Rajah Rasiah present a unique story about how firm strategies evolve from the catching up phase to the leapfrogging phase captured from the accounts of managers on the ground It is the first time firm level strategies have been systematically analysed to describe twenty first century strategic management in the integrated circuits industry in particular and the high tech industry in general The evidence and analysis in this book offers insights for chief executive officers policy makers and researchers to revisit existing approaches to the theory of catching up and leapfrogging

**VLSI Design and Test** Manoj Singh Gaur, Mark Zwolinski, Vijay Laxmi, D. Boolchandani, Virendra Sing, Adit Singh, 2013-12-13 This book constitutes the refereed proceedings of the 17th International Symposium on VLSI Design and Test VDAT 2013 held in Jaipur India in July 2013 The 44 papers presented were carefully reviewed and selected from 162 submissions The papers discuss the frontiers of design and test of VLSI components circuits and systems They are organized in topical sections on VLSI design testing and verification embedded systems emerging technology

*Nanometer CMOS ICs* Harry Veendrick, 2024-10-21 This textbook provides a comprehensive fully updated introduction to the essentials of nanometer CMOS integrated circuits It includes aspects of scaling to even beyond 3nm CMOS technologies and designs It clearly describes the fundamental CMOS operating principles and presents substantial insight into the various aspects of design fabrication and application Coverage includes all associated disciplines of nanometer CMOS ICs including physics lithography technology design memories VLSI power consumption variability reliability and signal integrity testing yield failure analysis packaging scaling trends and road blocks The text is based upon in house Philips NXP Semiconductors Applied Materials ASML IMEC ST Ericsson Infineon TSMC etc courseware which to date has been completed by more than 7000 engineers working in a large variety of the above mentioned disciplines

**Handbook of Integrated Circuit Industry** Yangyuan Wang, Min-Hwa Chi, Jesse Jen-Chung Lou, Chun-Zhang Chen, 2023-11-27 Written by hundreds experts who have made contributions to both enterprise and academics research these excellent reference books provide all necessary knowledge of the whole industrial chain of integrated circuits and cover topics related to the technology evolution trends fabrication applications new materials equipment economy investment and industrial developments of integrated circuits Especially the coverage is broad in scope and deep enough for all kind of readers being interested in integrated circuit industry Remarkable data collection update marketing evaluation enough working knowledge of integrated circuit fabrication clear and accessible category of integrated circuit products and good equipment insight explanation etc can make general readers build up a clear overview about the whole integrated circuit industry This encyclopedia is designed as a reference book for scientists and engineers actively involved in integrated circuit research and development field In addition this book

provides enough guide lines and knowledges to benefit enterprisers being interested in integrated circuit industry

Proceedings of the 1st International Conference on Electronic Engineering and Renewable Energy Bekkay Hajji, Giuseppe Marco Tina, Kamal Ghoumid, Abdelhamid Rabhi, Adel Mellit, 2018-08-01 The proceedings present a selection of refereed papers presented at the 1st International Conference on Electronic Engineering and Renewable Energy ICEERE 2018 held during 15-17 April 2018 Saidi Morocco. The contributions from electrical engineers and experts highlight key issues and developments essential to the multifaceted field of electrical engineering systems and seek to address multidisciplinary challenges in Information and Communication Technologies. The book has a special focus on energy challenges for developing the Euro-Mediterranean regions through new renewable energy technologies in the agricultural and rural areas. The book is intended for academia including graduate students, experienced researchers and industrial practitioners working in the fields of Electronic Engineering and Renewable Energy.

**Mitigating Process Variability and Soft Errors at Circuit-Level for FinFETs** Alexandra Zimpeck, Cristina Meinhardt, Laurent Artola, Ricardo Reis, 2021-03-10 This book evaluates the influence of process variations e.g. work function fluctuations and radiation induced soft errors in a set of logic cells using FinFET technology considering the 7nm technological node as a case study. Moreover, for accurate soft error estimation, the authors adopt a radiation event generator tool MUSCA SEP3 which deals both with layout features and electrical properties of devices. The authors also explore four circuit level techniques e.g. transistor reordering, decoupling cells, Schmitt Trigger and sleep transistor as alternatives to attenuate the unwanted effects on FinFET logic cells. This book also evaluates the mitigation tendency when different levels of process variation, transistor sizing and radiation particle characteristics are applied in the design. An overall comparison of all methods addressed by this work is provided, allowing to trace a trade-off between the reliability gains and the design penalties of each approach regarding the area, performance, power consumption, single event transient (SET) pulse width and SET cross section.

**Nanoelectronic Circuit Design** Niraj K. Jha, Deming Chen, 2010-12-21 This book is about large scale electronic circuits design driven by nanotechnology where nanotechnology is broadly defined as building circuits using nanoscale devices that are either implemented with nanomaterials e.g. nanotubes or nanowires or following an unconventional method e.g. FinFET or III-V compound based devices. These nanoscale devices have significant potential to revolutionize the fabrication and integration of electronic systems and scale beyond the perceived scaling limitations of traditional CMOS. While innovations in nanotechnology originate at the individual device level, realizing the true impact of electronic systems demands that these device level capabilities be translated into system level benefits. This is the first book to focus on nanoscale circuits and their design issues, bridging the existing gap between nanodevice research and nanosystem design.

*VLSI-SoC: Design Trends* Andrea Calimera, Pierre-Emmanuel Gaillardon, Kunal Korgaonkar, Shahar Kvatinsky, Ricardo Reis, 2021-07-14 This book contains extended and revised versions of the best papers presented at the 28th IFIP WG 10.5 IEEE International Conference on Very

Large Scale Integration VLSI SoC 2020 held in Salt Lake City UT USA in October 2020 The 16 full papers included in this volume were carefully reviewed and selected from the 38 papers out of 74 submissions presented at the conference The papers discuss the latest academic and industrial results and developments as well as future trends in the field of System on Chip SoC design considering the challenges of nano scale state of the art and emerging manufacturing technologies In particular they address cutting edge research fields like low power design of RF analog and mixed signal circuits EDA tools for the synthesis and verification of heterogenous SoCs accelerators for cryptography and deep learning and on chip Interconnection system reliability and testing and integration of 3D ICs The conference was held virtually

**System on Chip (SOC) Architecture** Veena S. Chakravarthi, Shivananda R. Koteswarar, 2023-08-14 This book deals with a practical approach to defining a system on a chip SoC architecture It is written by practicing industry experts with cumulative five decades of hands on experience The book discusses how the system level design challenges are addressed at the architecture stage and clearly defines different SoC subsystems and components The book explains the practical method of determining system subsystems in system architectures System on Chip SOC Architecture A Practical Approach provides readers with a complete understanding of methods for defining SoC architecture

**3D TCAD Simulation for Semiconductor Processes, Devices and Optoelectronics** Simon Li, Suihua Li, 2011-10-01 Technology computer aided design or TCAD is critical to today s semiconductor technology and anybody working in this industry needs to know something about TCAD This book is about how to use computer software to manufacture and test virtually semiconductor devices in 3D It brings to life the topic of semiconductor device physics with a hands on tutorial approach that de emphasizes abstract physics and equations and emphasizes real practice and extensive illustrations Coverage includes a comprehensive library of devices representing the state of the art technology such as SuperJunction LDMOS GaN LED devices etc

*Stress and Strain Engineering at Nanoscale in Semiconductor Devices* Chinmay K. Maiti, 2021-06-29 Anticipating a limit to the continuous miniaturization More Moore intense research efforts are being made to co integrate various functionalities More than Moore in a single chip Currently strain engineering is the main technique used to enhance the performance of advanced semiconductor devices Written from an engineering applications standpoint this book encompasses broad areas of semiconductor devices involving the design simulation and analysis of Si heterostructure silicongeranium SiGe and III N compound semiconductor devices The book provides the background and physical insight needed to understand the new and future developments in the technology CAD TCAD design at the nanoscale Features Covers stressstrain engineering in semiconductor devices such as FinFETs and III V Nitride based devices Includes comprehensive mobility model for strained substrates in global and local strain techniques and their implementation in device simulations Explains the development of strain stress relationships and their effects on the band structures of strained substrates Uses design of experiments to find the optimum process conditions Illustrates the use of TCAD for modeling strain engineered FinFETs for DC and AC

performance predictions This book is for graduate students and researchers studying solid state devices and materials microelectronics systems and controls power electronics nanomaterials and electronic materials and devices **ITJEMAST 12(3) 2021** ,2021-03-01 *Springer Handbook of Semiconductor Devices* Massimo Rudan,Rossella Brunetti,Susanna Reggiani,2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook s chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook

**Communication and Computing Systems** B.M.K. Prasad,Krishna Kant Singh,Neelam Ruhil,Karan Singh,Richard O'Kennedy,2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies

**Microelectronics, Circuits and Systems** Abhijit Biswas,Raghvendra Saxena,Debashis De,2021-08-03 This book presents a collection of peer reviewed articles from the 7th International Conference on Microelectronics Circuits and Systems Micro 2020 The volume covers the latest development and emerging research topics of material sciences devices microelectronics circuits nanotechnology system design and testing simulation sensors photovoltaics optoelectronics and its different applications This book also deals with several tools and techniques to match the theme of the conference It will be a valuable resource for researchers professionals Ph D scholars undergraduate and postgraduate students working in Electronics Microelectronics Electrical and Computer Engineering

*Nanoscale Thin-body MOSFET Design and Applications* Sriram Balasubramanian,2006

**VLSI Design Methodology Development** Thomas Dillinger,2019-06-17 The

Complete Modern Tutorial on Practical VLSI Chip Design Validation and Analysis As microelectronics engineers design complex chips using existing circuit libraries they must ensure correct logical physical and electrical properties and prepare for reliable foundry fabrication VLSI Design Methodology Development focuses on the design and analysis steps needed to perform these tasks and successfully complete a modern chip design Microprocessor design authority Tom Dillinger carefully introduces core concepts and then guides engineers through modeling functional design validation design implementation electrical analysis and release to manufacturing Writing from the engineer's perspective he covers underlying EDA tool algorithms flows criteria for assessing project status and key tradeoffs and interdependencies This fresh and accessible tutorial will be valuable to all VLSI system designers senior undergraduate or graduate students of microelectronics design and companies offering internal courses for engineers at all levels Reflect complexity cost resources and schedules in planning a chip design project Perform hierarchical design decomposition floorplanning and physical integration addressing DFT DFM and DFY requirements Model functionality and behavior validate designs and verify formal equivalency Apply EDA tools for logic synthesis placement and routing Analyze timing noise power and electrical issues Prepare for manufacturing release and bring up from mastering ECOs to qualification This guide is for all VLSI system designers senior undergraduate or graduate students of microelectronics design and companies offering internal courses for engineers at all levels It is applicable to engineering teams undertaking new projects and migrating existing designs to new technologies

Technology Computer Aided Design Chandan Kumar Sarkar, 2018-09-03 Responding to recent developments and a growing VLSI circuit manufacturing market Technology Computer Aided Design Simulation for VLSI MOSFET examines advanced MOSFET processes and devices through TCAD numerical simulations The book provides a balanced summary of TCAD and MOSFET basic concepts equations physics and new technologies related to TCAD and MOSFET A firm grasp of these concepts allows for the design of better models thus streamlining the design process saving time and money This book places emphasis on the importance of modeling and simulations of VLSI MOS transistors and TCAD software Providing background concepts involved in the TCAD simulation of MOSFET devices it presents concepts in a simplified manner frequently using comparisons to everyday life experiences The book then explains concepts in depth with required mathematics and program code This book also details the classical semiconductor physics for understanding the principle of operations for VLSI MOS transistors illustrates recent developments in the area of MOSFET and other electronic devices and analyzes the evolution of the role of modeling and simulation of MOSFET It also provides exposure to the two most commercially popular TCAD simulation tools Silvaco and Sentaurus Emphasizes the need for TCAD simulation to be included within VLSI design flow for nano scale integrated circuits Introduces the advantages of TCAD simulations for device and process technology characterization Presents the fundamental physics and mathematics incorporated in the TCAD tools Includes popular commercial TCAD simulation tools Silvaco and Sentaurus Provides characterization of performances of VLSI



MOSFETs through TCAD tools Offers familiarization to compact modeling for VLSI circuit simulation R D cost and time for electronic product development is drastically reduced by taking advantage of TCAD tools making it indispensable for modern VLSI device technologies They provide a means to characterize the MOS transistors and improve the VLSI circuit simulation procedure The comprehensive information and systematic approach to design characterization fabrication and computation of VLSI MOS transistor through TCAD tools presented in this book provides a thorough foundation for the development of models that simplify the design verification process and make it cost effective

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