

SILICON VLSI TECHNOLOGY

Fundamentals, Practice and Modeling



James D. Plummer · Michael D. Deal · Peter B. Griffin

Pradeep Kulkarni, University of Michigan · Charles Swartz, Texas A&M

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Silicon VLSI Technology James D. Plummer,2009 Biosensing with Silicon Enakshi Bhattacharya,2022-01-01 This book discusses two silicon biosensors an electrochemical sensor the Electrolyte Insulator Silicon Capacitor EISCAP and a mechanical resonant cantilever sensor The author presents the principle and the technology behind the device fabrication and miniaturization stable and reproducible functionalization protocols for bioreceptor immobilization and the measurement and the data analysis for extracting the best performance from these sensors EISCAP sensors used for the estimation of triglycerides and urea have been improved through the use of micromachining processes The miniaturization brought out advantages as well as challenges which are discussed in this book resulting in a prototype mini EISCAP with a readout circuit for fast and accurate estimation of triglycerides The author also reports on the sensitivity improvements in the estimation of triglycerides and urea obtained with the polycrystalline silicon cantilever and its measurements in liquid media The book is ideal for materials scientists and engineers working in the field of biosensors and MicroElectroMechanical systems MEMS and their optimizations as well as researchers with biochemical or biomedical expertise in order to have a fresh and updated review on the last progresses reached with EISCAPs and cantilever sensors **Anti-reflection and Light Trapping in c-Si Solar Cells** Chetan Singh Solanki,Hemant Kumar Singh,2017-06-30 This book offers essential insights into c Si based solar cells and fundamentals of reflection refraction and light trapping The basic physics and technology for light trapping in c Si based solar cells are covered from traditional to advanced light trapping structures Further the book discusses the latest developments in plasmonics for c Si solar cell applications along with their future scope and the requirements for further research The book offers a valuable guide for graduate students researchers and professionals interested in the latest trends in solar cell technologies FinFET Devices for VLSI Circuits and Systems Samar K. Saha,2020-07-15 To surmount the continuous scaling challenges of MOSFET devices FinFETs have emerged as the real alternative for use as the next generation device for IC fabrication technology The objective of this book is to provide the basic theory and operating principles of FinFET devices and technology an overview of FinFET device architecture and manufacturing processes and detailed formulation of FinFET electrostatic and dynamic device characteristics for IC design and manufacturing Thus this book caters to practicing engineers transitioning to FinFET technology and prepares the next generation of device engineers and academic experts on mainstream device technology at the nanometer nodes MEMS Materials and Processes Handbook Reza Ghodssi,Pinyen Lin,2011-03-18 MEMs Materials and Processes Handbook is a comprehensive reference for researchers searching for new materials properties of known materials or specific processes available for MEMS fabrication The content is separated into distinct sections on Materials and Processes The extensive Material Selection Guide and a Material Database guides the reader through the selection of appropriate materials for the required task at hand The Processes section of the book is organized as a catalog of various microfabrication processes each with a brief introduction to

the technology as well as examples of common uses in MEMs **Silicon VLSI Technology** James D. Plummer, Michael Deal, Peter D. Griffin, Peter B. Griffin, 2015-12-01 For one quarter semester senior graduate level courses in Fabrication Processes Unique in approach this text provides an integrated view of silicon technology with an emphasis on modern computer simulation It describes not only the manufacturing practice associated with the technologies used in silicon chip fabrication but also the underlying scientific basis for those technologies **Semiconductor Wafer Bonding 10: Science, Technology, and Applications**, 2008-10 This issue of ECS Transactions on Semiconductor Wafer Bonding will cover the state of the art R D results of the last 2 years in the field of semiconductor wafer bonding technology Wafer Bonding is an Enabling Technology that can be used to create novel composite materials systems and devices that would otherwise be unattainable Wafer Bonding today is rapidly expanding into new applications in such diverse fields as photonics sensors MEMS X ray optics non electronic microstructures high performance CMOS platforms for high end servers Si Ge strained SOI Germanium on Insulator GeOI and Nanotechnologies **Fabless Semiconductor Manufacturing** Chinmay K. Maiti, 2022-11-17 This book deals with 3D nanodevices such as nanowire and nanosheet transistors at 7 nm and smaller technology nodes It discusses technology computer aided design TCAD simulations of stress and strain engineered advanced semiconductor devices including III nitride and RF FDSOI CMOS for flexible and stretchable electronics The book focuses on how to set up 3D TCAD simulation tools from mask layout to process and device simulation including fabless intelligent manufacturing The simulation examples chosen are from the most popular devices in use today and provide useful technology and device physics insights In order to extend the role of TCAD in the More than Moore era the design issues related to strain engineering for flexible and stretchable electronics have been introduced for the first time **Nanometer CMOS** Jun J. Liou, Frank Schwierz, Hei Wong, 2010-02-28 This book presents the material necessary for understanding the physics operation design and performance of modern MOSFETs with nanometer dimensions It offers a brief introduction to the field and a thorough overview of MOSFET physics detailing the relevant basics The authors apply presented models to calculate and demonstrate transistor characteristics and they include required input data e g dimensions doping enabling readers to repeat the calculations and compare their results The book introduces conventional and novel advanced MOSFET concepts such as multiple gate structures or alternative channel materials Other topics covered include high k dielectrics and mobility enhancement techniques MOSFETs for RF radio frequency applications MOSFET fabrication technology **New Problems and New Solutions for Device and Process Modelling** John J. H. Miller, 1985 **Journal of the Korean Physical Society**, 2004 **1983 Symposium on VLSI Technology**, 1983 **Wave-optical Systems Engineering**, 2003 [SIAM Journal on Scientific and Statistical Computing](#) Society for Industrial and Applied Mathematics, 1983 **Semiconductor Integrated Circuit Processing Technology** W. R. Runyan, Kenneth E. Bean, 1990 **Process and Device Modeling** Walter L. Engl, 1986 This book is the first of a new seven volume series which aims to provide a comprehensive description of

basic methods and technologies related to CAD for VLSI The series includes up to date results and latest developments with a good balance between theoretical and practical aspects of VLSI design In this volume emphasis is placed on the basics of modeling the opening chapters being devoted to fundamental process and device modeling The following chapters cover different aspects of device modeling and also bridge to process simulation on the one side and circuit simulation on the other A systems approach to physical modeling spanning the whole range of topics covered is also dealt with Recent conferences on the subject have signalled that physical modeling combined with technology device and circuit optimization will undoubtedly become a major trend in the future

Electronic Properties of Porphyrin-Based Organic Transistors

Patrick Bruckner Shea,2006 *Proceedings of the Fourteenth Biennial University/Government/Industry Microelectronics Symposium* ,2001 Semiconductor International ,1987 Materials Issues in Novel Si-Based Technology: Volume 686
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