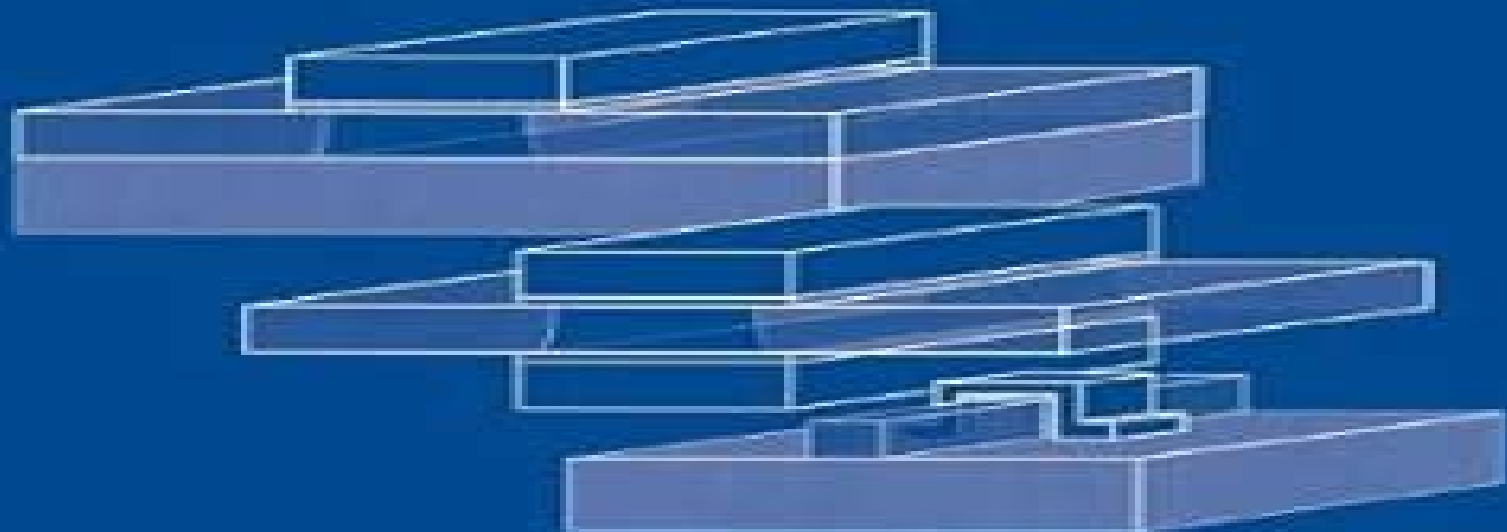

SILICON-ON-INSULATOR TECHNOLOGY: Materials to VLSI, 3rd Edition

Jean-Pierre Colinge



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Silicon On Insulator Technology Materials To Vlsi

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Silicon-on-Insulator Technology: Materials to VLSI J.-P. Colinge, 2012-12-06 Silicon on Insulator Technology Materials to VLSI Third Edition retraces the evolution of SOI materials devices and circuits over a period of roughly twenty years Twenty years of progress research and development during which SOI material fabrication techniques have been born and abandoned devices have been invented and forgotten but most importantly twenty years during which SOI Technology has little by little proven it could outperform bulk silicon in every possible way The turn of the century turned out to be a milestone for the semiconductor industry as high quality SOI wafers suddenly became available in large quantities From then on it took only a few years to witness the use of SOI technology in a wealth of applications ranging from audio amplifiers and wristwatches to 64 bit microprocessors This book presents a complete and state of the art review of SOI materials devices and circuits SOI fabrication and characterization techniques SOI CMOS processing and the physics of the SOI MOSFET receive an in depth analysis *Silicon-on-insulator Technology* Jean-Pierre Colinge, 1991

Silicon-On-Insulator Technology: Materials To Vlsi, 3E Colinge, 2007-12-01 *Silicon-On-Insulator (SOI)*

Technology O. Kononchuk, B.-Y. Nguyen, 2014-06-19 Silicon On Insulator SOI Technology Manufacture and Applications covers SOI transistors and circuits manufacture and reliability The book also looks at applications such as memory power devices and photonics The book is divided into two parts part one covers SOI materials and manufacture while part two covers SOI devices and applications The book begins with chapters that introduce techniques for manufacturing SOI wafer technology the electrical properties of advanced SOI materials and modeling short channel SOI semiconductor transistors Both partially depleted and fully depleted SOI technologies are considered Chapters 6 and 7 concern junctionless and fin on oxide field effect transistors The challenges of variability and electrostatic discharge in CMOS devices are also addressed Part two covers recent and established technologies These include SOI transistors for radio frequency applications SOI CMOS circuits for ultralow power applications and improving device performance by using 3D integration of SOI integrated circuits Finally chapters 13 and 14 consider SOI technology for photonic integrated circuits and for micro electromechanical systems and nano electromechanical sensors The extensive coverage provided by Silicon On Insulator SOI Technology makes the book a central resource for those working in the semiconductor industry for circuit design engineers and for academics It is also important for electrical engineers in the automotive and consumer electronics sectors Covers SOI transistors and circuits as well as manufacturing processes and reliability Looks at applications such as memory power devices and photonics Silicon-on-insulator Technology and Devices XI Electrochemical Society. Meeting, 2003

Silicon-on-Insulator Technology and Devices 14 Yasuhisa Omura, 2009-05 This issue of ECS Transactions contains papers on silicon on insulator subjects including devices device physics modelling simulations microelectronics photonics nano technology integrated circuits radiation hardness material characterization reliability and sensors

Silicon-on-Insulator Technology and Devices X Electrochemical Society. Electronics Division, Electrochemical Society. Meeting, 2001 **Silicon-on-insulator Technology and Devices** Peter L. F. Hemment, Sorin Cristoloveanu, 1999

Silicon-on-Insulator Technology J.-P. Colinge, 2013-03-09 5 2 Distinction between thick and thin film devices 109 5 3 I V Characteristics 112 5 3 1 Threshold voltage 11 2 5 3 2 Body effect 1 1 8 5 3 3 Short channel effects 120 5 3 4 Output characteristics 1 24 5 4 Transconductance and mobility 129 5 4 1 Transconductance 129 5 4 2 Mobility 130 5 5 Subthreshold slope 132 5 6 Impact ionization and high field effects 13 9 5 6 1 Kink effect 1 39 5 6 2 Hot electron degradation 143 5 7 Parasitic bipolar effects 145 5 7 1 Anomalous subthreshold slope 1 45 5 7 2 Reduced drain breakdown voltage 14 7 5 8 Accumulation mode p channel MOSFET 14 9 CHAPTER 6 Other SOI Devices 1 5 9 6 1 Non conventional devices adapted from bulk 159 6 1 1 COMFET 160 6 1 2 High voltage lateral MOSFET 1 6 1 6 1 3 PIN photodiode 162 6 1 4 JFET 163 6 2 Novel SOI devices 164 6 2 1 Lubistor 164 6 2 2 Bipolar MOS device 166 6 2 3 Double gate MOSFET 1 69 6 2 4 Bipolar transistors 172 6 2 5 Optical modulator 1 74 CHAPTER 7 The sm MOSFET Operating in a Harsh Environment 1 77 7 1 Radiation environment 1 7 7 7 1 1 SEU 178 7 1 2 Total dose 180 7 1 3 Dose rate 1 8 4 7 2 High temperature operation 1 85 7

2 1 Leakage currents *Silicon-on-insulator Technology and Devices XII* George K. Celler, Sorin Cristoloveanu, Electrochemical Society. Meeting, 2005 **Silicon-on-insulator Technology and Devices 13** George K. Celler, Sorin Cristoloveanu, 2007 This issue of ESC Transactions covers recent significant advances in SOI technologies It will be of interest to materials and device scientists as well as to process and applications oriented engineers Several keynote papers introduce and review the main topics This is followed by contributed papers covering the latest research and implementation results **Scientific Bulletin** , 1985 **Scientific Bulletin** United States. Office of Naval Research, 1985-04 **MOS Devices for Low-Voltage and Low-Energy Applications** Yasuhisa Omura, Abhijit Mallik, Naoto Matsuo, 2017-02-28 Helps readers understand the physics behind MOS devices for low voltage and low energy applications Based on timely published and unpublished work written by expert authors Discusses various promising MOS devices applicable to low energy environmental and biomedical uses Describes the physical effects quantum tunneling of MOS devices Demonstrates the performance of devices helping readers to choose right devices applicable to an industrial or consumer environment Addresses some Ge based devices and other compound material based devices for high frequency applications and future development of high performance devices Seemingly innocuous everyday devices such as smartphones tablets and services such as on line gaming or internet keyword searches consume vast amounts of energy Even when in standby mode all these devices consume energy The upcoming Internet of Things IoT is expected to deploy 60 billion electronic devices spread out in our homes cars and cities Britain is already consuming up to 16 per cent of all its power through internet use and this rate is doubling every four years According to The UK's Daily Mail May 2015 if usage rates continue all of Britain's power supply could be consumed by internet use in just 20 years In 2013 U S data centers consumed an estimated 91 billion kilowatt hours of electricity corresponding to the power generated by seventeen 1000 megawatt nuclear power plants Data center electricity consumption is projected to increase to roughly 140 billion kilowatt hours annually by 2020 the equivalent annual output of 50 nuclear power plants Natural Resources Defense Council USA Feb 2015 All these examples stress the urgent need for developing electronic devices that consume as little energy as possible The book MOS Devices for Low Voltage and Low Energy Applications explores the different transistor options that can be utilized to achieve that goal It describes in detail the physics and performance of transistors that can be operated at low voltage and consume little power such as subthreshold operation in bulk transistors fully depleted SOI devices tunnel FETs multigate and gate all around MOSFETs Examples of low energy circuits making use of these devices are given as well The book MOS Devices for Low Voltage and Low Energy Applications is a good reference for graduate students researchers semiconductor and electrical engineers who will design the electronic systems of tomorrow Dr Jean Pierre Colinge Taiwan Semiconductor Manufacturing Company TSMC The authors present a creative way to show how different MOS devices can be used for low voltage and low power applications They start with Bulk MOSFET following with SOI MOSFET FinFET gate all around

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Handbook of Semiconductor Manufacturing Technology Yoshio Nishi,Robert Doering,2017-12-19 Retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the Handbook of Semiconductor Manufacturing Technology Second Edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing field Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world s leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter this edition features five entirely new contributions on Silicon on insulator SOI materials and devices Supercritical CO₂ in semiconductor cleaning Low dielectrics Atomic layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits ICs Reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication IC packaging and 300 mm wafer fabrication While no book can be up to the minute with the advances in the semiconductor field the Handbook of Semiconductor Manufacturing Technology keeps the most important data methods tools and techniques close at hand

ONR Far East Scientific Bulletin , Semiconductor Technology (ISTC 2001) Ming Yang,2001

Low-power HF Microelectronics Gerson A. S. Machado,1996 This book brings together innovative modelling simulation and design techniques in CMOS SOI GaAs and BJT to achieve successful high yield manufacture for low power high speed and reliable by design analogue and mixed mode integrated systems

Physical and Technical Problems of SOI Structures and Devices J.-P. Colinge,Vladimir S. Lysenko,Alexei N. Nazarov,2012-12-06 In Physical and Technical Problems of SOI Structures and Devices specialists in silicon on insulator technology from both East and West meet for the first time giving the reader the chance to become acquainted with work from the former Soviet Union hitherto only available in Russian and barely available to western scientists Keynote lectures and state of the art presentations give a wide ranging panorama of the challenges posed by SOI materials and devices material fabrication techniques characterisation device and circuit issues

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Table of Contents Silicon On Insulator Technology Materials To Vlsi

1. Understanding the eBook Silicon On Insulator Technology Materials To Vlsi
 - The Rise of Digital Reading Silicon On Insulator Technology Materials To Vlsi
 - Advantages of eBooks Over Traditional Books
2. Identifying Silicon On Insulator Technology Materials To Vlsi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Silicon On Insulator Technology Materials To Vlsi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Silicon On Insulator Technology Materials To Vlsi
 - Personalized Recommendations
 - Silicon On Insulator Technology Materials To Vlsi User Reviews and Ratings
 - Silicon On Insulator Technology Materials To Vlsi and Bestseller Lists
5. Accessing Silicon On Insulator Technology Materials To Vlsi Free and Paid eBooks
 - Silicon On Insulator Technology Materials To Vlsi Public Domain eBooks
 - Silicon On Insulator Technology Materials To Vlsi eBook Subscription Services
 - Silicon On Insulator Technology Materials To Vlsi Budget-Friendly Options

6. Navigating Silicon On Insulator Technology Materials To Vlsi eBook Formats
 - ePub, PDF, MOBI, and More
 - Silicon On Insulator Technology Materials To Vlsi Compatibility with Devices
 - Silicon On Insulator Technology Materials To Vlsi Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Silicon On Insulator Technology Materials To Vlsi
 - Highlighting and Note-Taking Silicon On Insulator Technology Materials To Vlsi
 - Interactive Elements Silicon On Insulator Technology Materials To Vlsi
8. Staying Engaged with Silicon On Insulator Technology Materials To Vlsi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Silicon On Insulator Technology Materials To Vlsi
9. Balancing eBooks and Physical Books Silicon On Insulator Technology Materials To Vlsi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Silicon On Insulator Technology Materials To Vlsi
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Silicon On Insulator Technology Materials To Vlsi
 - Setting Reading Goals Silicon On Insulator Technology Materials To Vlsi
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Silicon On Insulator Technology Materials To Vlsi
 - Fact-Checking eBook Content of Silicon On Insulator Technology Materials To Vlsi
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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