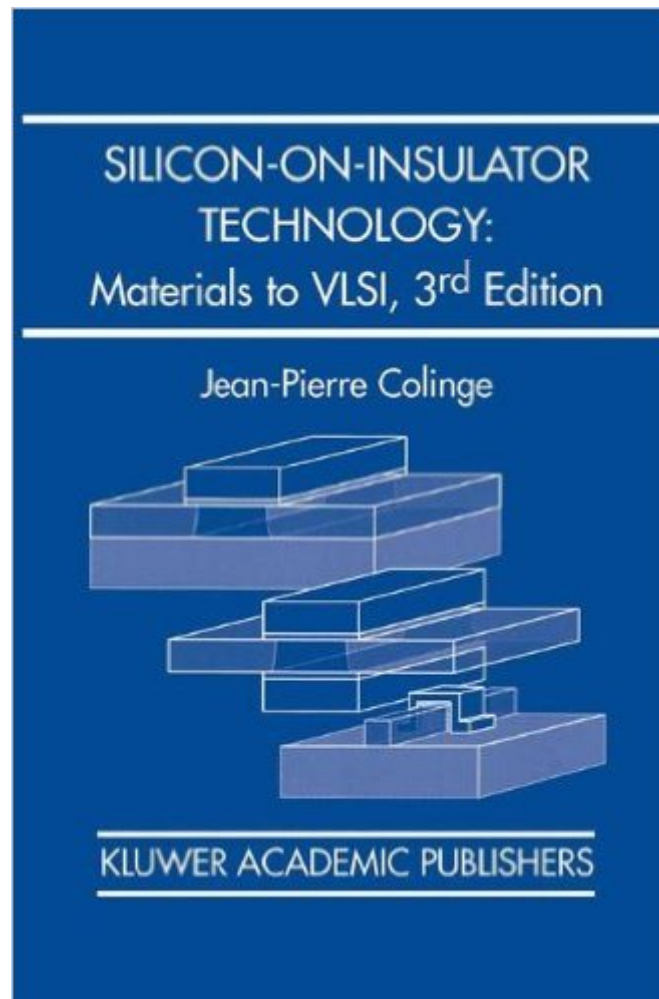


The book was found

Silicon-on-Insulator Technology: Materials To VLSI



Synopsis

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.

Book Information

Hardcover: 366 pages

Publisher: Springer; 3rd ed. 2004 edition (February 29, 2004)

Language: English

ISBN-10: 1402077734

ISBN-13: 978-1402077739

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #2,993,322 in Books (See Top 100 in Books) #115 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI #125 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #550 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors

Customer Reviews

I am a student of microelectronics and this book has been very helpful to my understanding of the technology SOI MOSFETs transistors behaviors. The Colinge was very didactic in his book. I recommend.

[Download to continue reading...](#)

Silicon-on-Insulator Technology: Materials to VLSI Silicon VLSI Technology: Fundamentals, Practice and Modeling (Taschenbuch) Silicon Processing for the VLSI Era, Vol. 4: Deep-Submicron Process Technology Silicon VLSI Technology: Fundamentals, Practice, and Modeling Silicon VLSI Technology Digital VLSI Design with Verilog: A Textbook from Silicon Valley Polytechnic Institute Silicon Processing for the VLSI Era, Vol. 2: Process Integration VLSI Test Principles and Architectures: Design for Testability (The Morgan Kaufmann Series in Systems on Silicon) Digital VLSI Design with Verilog: A Textbook from Silicon Valley Technical Institute VLSI Fabrication Principles: Silicon and Gallium Arsenide, 2nd Edition Circuits, Interconnections, and Packaging for Vlsi (Addison-Wesley VLSI systems series) Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) Engineering Materials 2, Fourth Edition: An Introduction to Microstructures and Processing (International Series on Materials Science and Technology) The Student's Guide to VHDL, Second Edition (Systems on Silicon) Embedded DSP Processor Design, : Application Specific Instruction Set Processors (Systems on Silicon) California Apricots: Lost Orchards of Silicon Valley (American Palate) Soil, Fertilizer, and Plant Silicon Research in Japan Through-Silicon Vias for 3D Integration Electronic Genie: THE TANGLED HISTORY OF SILICON Silicon-Germanium Heterojunction Bipolar Transistors

[Dmca](#)