



## Silicon-on-Insulator Technology: Materials to VLSI (Hardback)

By Jean-Pierre Colinge

Springer, Netherlands, 1997. Hardback. Condition: New. 2nd ed. 1997. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Silicon-on-Insulator Technology: Materials to VLSI, 2nd Edition describes the different facets of SOI technology. SOI chips are now commercially available and SOI wafer manufacturers have gone public. SOI has finally made it out of the academic world and is now a big concern for every major semiconductor company. SOI technology has indeed deserved serious recognition: high-temperature (400 DegreesC), extremely rad-hard (500 Mrad(Si)), high-density (16 Mb, 0.9-volt DRAM), high-speed (several GHz) and low-voltage (0.5 V) SOI circuits have been demonstrated. Strategic choices in favor of the use of SOI for low-voltage, low-power portable systems have been made by several major semiconductor manufacturers. Silicon-on-Insulator Technology: Materials to VLSI, 2nd Edition presents a complete and state-of-the-art review of SOI materials, devices and circuits. SOI fabrication and characterization techniques, SOI device processing, the physics of the SOI MOSFET as well as that of SOI other devices, and the performances of SOI circuits are discussed in detail. The SOI specialist will find this book invaluable as a source of compiled references covering the different aspects of SOI technology. For the non-specialist, the book serves as...



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