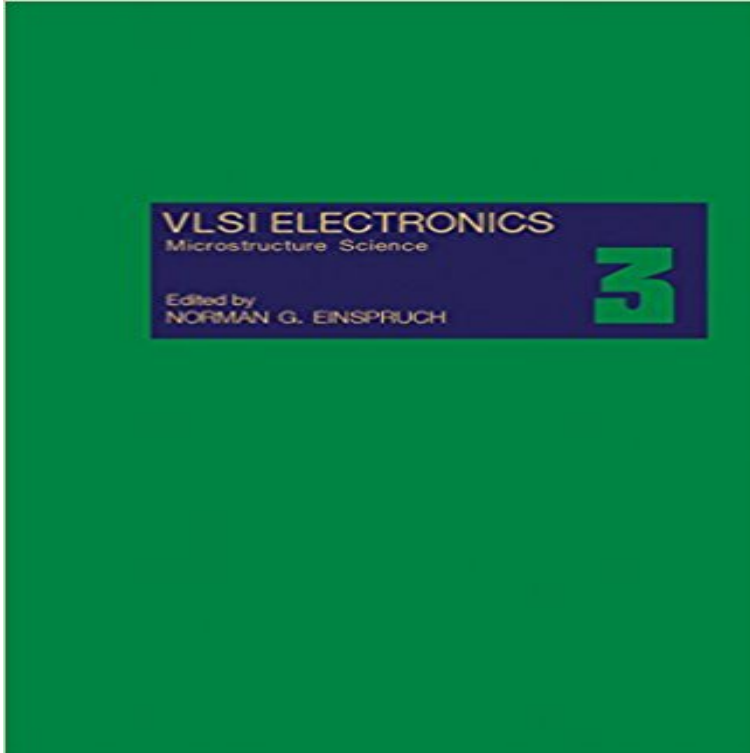


## VLSI Electronics: Microstructure Science: 003 (VLSI Electronics Microstructure Science)



VLSI Electronics: Microstructure Science, Volume 3 evaluates trends for the future of very large scale integration (VLSI) electronics and the scientific base that supports its development. This book discusses the impact of VLSI on computer architectures; VLSI design and design aid requirements; and design, fabrication, and performance of CCD imagers. The approaches, potential, and progress of ultra-high-speed GaAs VLSI; computer modeling of MOSFETs; and numerical physics of micron-length and submicron-length semiconductor devices are also elaborated. This text likewise covers the optical linewidth measurements on photomasks and wafers and effects of materials technology and fabrication tolerances on guided-wave optical communication and signal processing. This volume is recommended for scientists and engineers who wish to become familiar with VLSI electronics, device designers concerned with the fundamental character of and limitations to device performance, systems architects who will be charged with tying VLSI circuits together, and engineers conducting work on the utilization of VLSI circuits in specific areas of application.

[\[PDF\] Characteristics and limitations of transistors \(Semiconductor Electronics Education Committee. Books; vol.4\)](#)

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