



Nanoelectronics: Nanowires, Molecular Electronics, and Nanodevices

Krzysztof Iniewski

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The latest advances in nanoelectronics

This definitive volume addresses the state of the art in nanoelectronics, covering nanowires, molecular electronics, and nanodevices. Written by global experts in the field, *Nanoelectronics* discusses cutting-edge techniques and emerging materials, such as carbon nanotubes and quantum dots. This pioneering work offers a comprehensive survey of nanofabrication options for use in next-generation technologies.

Nanoelectronics covers:

- Electrical properties of metallic nanowires
- Electromigration defect nucleation in damascene copper interconnect lines
- Carbon nanotube interconnects in CMOS integrated circuits
- Printed organic electronics
- One-dimensional nanostructure-enabled chemical sensing
- Cross-section fabrication and analysis of nanoscale device structures and complex organic electronics
- Microfabrication and applications of nanoparticle-doped conductive polymers
- Single-electron conductivity in organic nanostructures for transistors and memories
- Synthesis of molecular bioelectronic nanostructures
- Nanostructured electrode materials for advanced Li-ion batteries
- Quantum-dot devices based on carbon nanotubes
- Carbon nanotubes as electromechanical actuators
- Low-level nanoscale electrical measurements and ESD
- Nanopackaging

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