



Nanoelectronic Device Applications Handbook (Devices, Circuits, and Systems)

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Nanoelectronic Device Applications Handbook gives a comprehensive snapshot of the state of the art in nanodevices for nanoelectronics applications. Combining breadth and depth, the book includes 68 chapters on topics that range from nano-scaled complementary metal–oxide–semiconductor (CMOS) devices through recent developments in nano capacitors and AlGaAs/GaAs devices. The contributors are world-renowned experts from academia and industry from around the globe.

The handbook explores current research into potentially disruptive technologies for a post-CMOS world. These include:

- Nanoscale advances in current MOSFET/CMOS technology
- Nano capacitors for applications such as electronics packaging and humidity sensors
- Single electron transistors and other electron tunneling devices
- Quantum cellular automata and nanomagnetic logic
- Memristors as switching devices and for memory
- Graphene preparation, properties, and devices
- Carbon nanotubes (CNTs), both single CNT and random network
- Other CNT applications such as terahertz, sensors, interconnects, and capacitors
- Nano system architectures for reliability
- Nanowire device fabrication and applications
- Nanowire transistors
- Nanodevices for spintronics

The book closes with a call for a new generation of simulation tools to handle nanoscale mechanisms in realistic nanodevice geometries.

This timely handbook offers a wealth of insights into the application of nanoelectronics. It is an invaluable reference and source of ideas for anyone working in the rapidly expanding field of nanoelectronics.

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