



Micro- and Nanoelectronics: Emerging Device Challenges and Solutions (Devices, Circuits, and Systems)

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Micro- and Nanoelectronics: Emerging Device Challenges and Solutions presents a comprehensive overview of the current state of the art of micro- and nanoelectronics, covering the field from fundamental science and material properties to novel ways of making nanodevices. Containing contributions from experts in both industry and academia, this cutting-edge text:

- Discusses emerging silicon devices for CMOS technologies, fully depleted device architectures, characteristics, and scaling
- Explains the specifics of silicon compound devices (SiGe, SiC) and their unique properties
- Explores various options for post-CMOS nanoelectronics, such as spintronic devices and nanoionic switches
- Describes the latest developments in carbon nanotubes, iii-v devices structures, and more

Micro- and Nanoelectronics: Emerging Device Challenges and Solutions provides an excellent representation of a complex engineering field, examining emerging materials and device architecture alternatives with the potential to shape the future of nanotechnology.

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