



Nano Optoelectronic Sensors and Devices: Nanophotonics from Design to Manufacturing (Micro and Nano Technologies)

Ning Xi, King Lai

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Nanophotonics has emerged as a major technology and applications domain, exploiting the interaction of light-emitting and light-sensing nanostructured materials. These devices are lightweight, highly efficient, low on power consumption, and are cost effective to produce. The authors of this book have been involved in pioneering work in manufacturing photonic devices from carbon nanotube (CNT) nanowires and provide a series of practical guidelines for their design and manufacture, using processes such as nano-robotic manipulation and assembly methods. They also introduce the design and operational principles of opto-electrical sensing devices at the nano scale. Thermal annealing and packaging processes are also covered, as key elements in a scalable manufacturing process. Examples of applications of different nanowire based photonic devices are presented. These include applications in the fields of electronics (e.g. FET, CNT Schottky diode) and solar energy.

- Discusses opto-electronic nanomaterials, characterization and properties from an engineering perspective, enabling the commercialization of key emerging technologies
- Provides scalable techniques for nanowire structure growth, manipulation and assembly (i.e. synthesis)
- Explores key application areas such as sensing, electronics and solar energy

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