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Semiconductor nanowires promise to provide the building blocks for a new generation of nanoscale electronic and optoelectronic devices. *Semiconductor Nanowires: Materials, Synthesis, Characterization and Applications* covers advanced materials for nanowires, the growth and synthesis of semiconductor nanowires-including methods such as solution growth, MOVPE, MBE, and self-organization. Characterizing the properties of semiconductor nanowires is covered in chapters describing studies using TEM, SPM, and Raman scattering. Applications of semiconductor nanowires are discussed in chapters focusing on solar cells, battery electrodes, sensors, optoelectronics and biology.

- Explores a selection of advanced materials for semiconductor nanowires
- Outlines key techniques for the property assessment and characterization of semiconductor nanowires
- Covers a broad range of applications across a number of fields

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