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ADVANCES IN III-V SEMICONDUCTOR NANOWIRES AND NANODEVICES

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About the eBook

This eBook is an account of recent progress in the synthesis, characterization, physical properties, device fabrication, and applications of binary compound and ternary alloy III-V semiconductor nanowires. The book is written at the expert level, but also serves as a guide for researchers or graduate students aiming to enter semiconductor research.

Contents

- ▶ General Synthetic Strategies for III-V Nanowires
- ▶ Growth, Properties, and Device Applications of III-Nitride Nanowire Heterostructures
- ▶ III-Phosphide Nanowires
- ▶ Growth of III-Arsenide/Phosphide Nanowires by Molecular Beam Epitaxy
- ▶ III-Antimonide Nanowires
- ▶ III-V Ternary Nanowires
- ▶ III-V Semiconductor Nanowire Transistors
- ▶ III-V Semiconductor Nanowire Light Emitting Diodes and Lasers
- ▶ III-V Semiconductor Nanowire Solar Cells

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