

Recent developments in semiconductor materials and quantum structures are leading to significant advances in optoelectronic devices such as mid-infrared lasers and light-emitting diodes; long-wavelength detectors and solar cells; and modulators and optical switches. This book highlights the progress in both naturally- and artificially-structured wave-function-engineered semiconductors, focusing on epitaxial compound-semiconductor compounds and alloys. The relationships among electronic, optical, and transport properties are emphasized, as are the implications for design and performance. Materials of particular interest include the familiar III-V compounds and alloys; newer offspring of these, such as the dilute-nitride III-Vs; ZnO and II-IV semiconductors; and spintronic materials. Exploratory studies of less commonly studied materials which may be of increasing future interest are also featured. Topics include: low bandgap and dilute-nitride semiconductors; growth, structure and defects; emitters, detectors and solar cells; devices; zinc oxide; spintronics and quantum structures; quantum dots and wires-structure, spectroscopy and transport and quantum dots and wires-devices.

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