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electronics. You learn how to grow, characterize and design optoelectronic devices using semiconductor nanostructures, and how to incorporate semiconductor nanostructures materials into conventional quantum well devices.

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From the Back Cover This book presents the fabrication of optoelectronic nanodevices. The structures considered are nanowires, nanorods, hybrid semiconductor nanostructures, wide bandgap nanostructures for visible light emitters and graphene. The device applications of these structures are broadly explained.

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structures measurable on the nanometer
scale (one-billionth of a meter) are

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known as nanostructures, and nanotechnology is the emerging application of these nanostructures into useful nanoscale devices.

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successful development of quantum well lasers in the 1970s, one of the richest areas of application of semiconductor nanostructures has been in the area of optoelectronic devices, with the two most important areas being semiconductor lasers and detectors.

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Here, we comprehensively review the progress in the development of various

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Gr/semiconductor hybrid heterostructures, including /group II-VI nanostructures, /group III-V semiconductors, /group IV semiconductors, /metal oxides and /other semiconductors, in terms of the device design, device performance and physics, processing techniques for

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performance optimization, etc. In the final section, conclusions of the existing techniques are presented and future ...

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Investigations into semiconductor nanomaterials from both an academic and industrial point of view are of great

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Recent Advances in Semiconducting Monoelemental Selenium ...

The ZnO nanostructures can be

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implemented in Optoelectronic, Sensors, Transducers and Biomedical applications [1, 2, 3, 4]. Use of these nanostructures, will allow building of Nanoscale nanosensors, nanocantilevers, field-effect transistors and nanoresonators for a variety of Military, Homeland Security and Commercial Applications.

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ZnO Nanostructures for Optoelectronic Applications

Metal halide based organic-inorganic hybrid perovskites (OIHPs) is rapidly emerging as an active components in the photovoltaic and optoelectronic devices. Fabricated in low dimensional nanostructures with control, OIHPs exhibit superior optoelectronic

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Perovskite Nanostructures for Optoelectronics and Fundamental Studies Metal halide perovskites have recently re-emerged as a new class of earth-abundant semiconductor materials

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Since the discovery of carbon nanotubes

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