



# Quantum Dots: Optics, Electron Transport and Future Applications

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## Quantum Dots: Optics, Electron Transport and Future Applications

A comprehensive review of cutting-edge solid state research, focusing on its prominent example - quantum dot nanostructures - this book features a broad range of techniques for fabrication of these nano-structured semiconductors and control of their quantum properties. Written by leading researchers, the book considers advanced III-V and II-VI semiconductor quantum dots (QDs) realized by self-assembly, lithography and chemical synthesis; novel QD structures in nanowires and graphene; and transport and optical methods for control of single QDs. Significant attention is given to manipulation of single spins and control of their magnetic environment, and generation of quantum light emitted by single dots in dielectric cavities and coupled to plasmons in metallic structures. It is a valuable resource for graduate students and researchers new to this field.

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