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Quantum Dots Quantum Hall Systems

Quantum Dots

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we present an overview of the theoretical background and experimental results in the rapidly developing field of semiconductor quantum dots systems 8 6 of dimensions as small as 10 10 m quasi zero dimensional that contain a small and controllable number 1 1000 of electrons the electronic structure of quantum dots including the energy quantization of the single particle states due to spatial confinement and the evolution of these fock darwin states in an increasing external magnetic field is described the properties of many electron systems confined in a dot are also studied this includes the separation of the center of mass motion for the parabolic confining potential and hence the insensitivity of the transitions under far infrared radiation to the coulomb interactions and the number of particles the generalized kohn theorem and the effects due to coulomb interactions formation of the incompressible magic states at high magnetic fields and their relation to composite fermions and finally the spin orbit interactions in addition the excitonic properties of quantum dots are discussed including the energy levels and the spectral function of a single exciton the relaxation of confined carriers the metastable states and their effect on the photoluminescence spectrum the interaction of an exciton with carriers and exciton condensation the theoretical part of this work which is based largely on original results obtained by the authors has been supplemented with descriptions of various methods of creating quantum dot structures

Quantum Hall Systems

2003

this book presents cutting edge topics in modern theoretical physics quantum hall systems the subject of two nobel prizes in 1985 and 1998

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