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Optical Spectroscopy of Semiconductor Nanostructures extends the field of solid-state spectroscopy into the domain of semiconductor nanophysics. It reviews new trends and notable progress attained recently in various optical studies of semiconductor low-dimensional systems. The one- and zero-dimensional structures, quantum wires and quantum dots, are treated on equal footing, alongside of superlattices and two-dimensional systems, heterojunctions and quantum wells. Both phenomenological and the microscopical descriptions of the physical phenomena are performed with an emphasis on the symmetry analysis and the method of invariants. Subject treated are, for example, · Quantum confinement in low-dimensional systems · Exciton polaritons in nanostructures and microcavities · Resonant electro-and magneto-optics · Intersubband optical spectroscopy · Photoluminescence of low-dimensional systems · Optical spin orientation and spin-relaxation mechanisms · Fine structure of excitonic levels · Light scattering in nanostructures · Nonlinear optical phenomena · Circular photogalvanic and spin-galvanic effects.