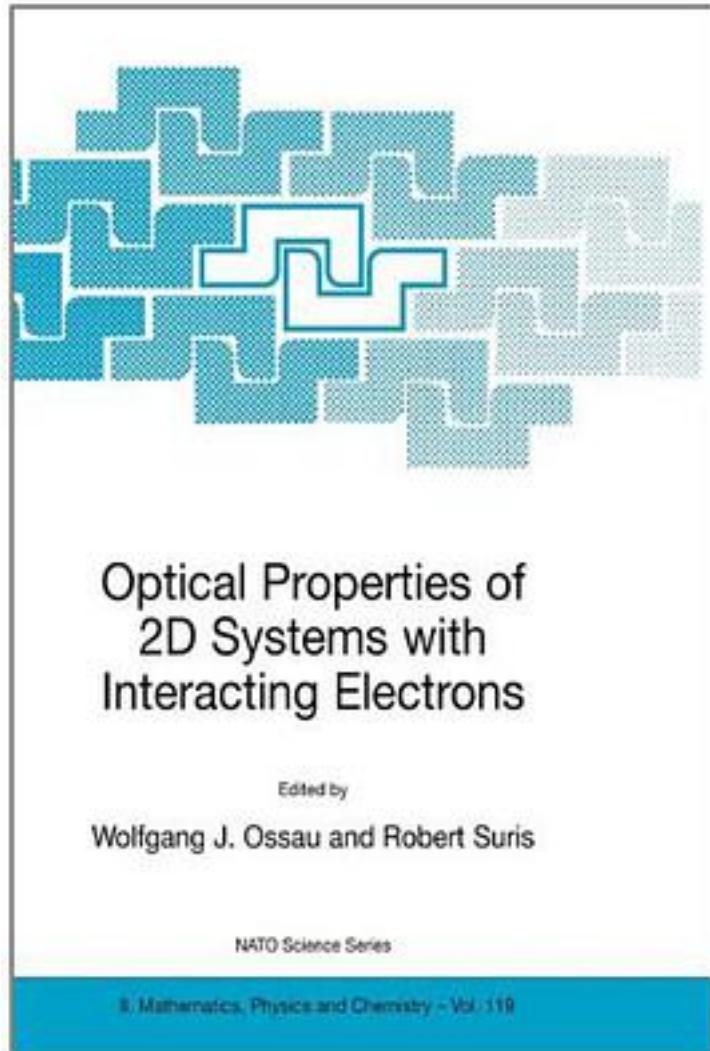


Optical Properties of 2D Systems with Interacting Electrons



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The book focuses on the following topics: Evolution of optical spectra from excitonic peaks to the Fermi-edge singularity; negatively and positively charged excitons; reconstructing one-particle and collective excitation spectra with increasing electron density; spatial inhomogeneity and carrier interaction in nanostructures; spin-sensitive interaction and spin-spin interaction in confined systems; many-particle effects in semimagnetic semiconductor heterostructures. Optical methods described include: photoluminescence spectroscopy; Raman spectroscopy; reflectivity; near-field spectroscopy; magneto-optics in magnetic fields up to 50 T; pico- and femtosecond time-resolved spectroscopy; polarized light spectroscopy; optically detected resonance spectroscopy under far-IR and microwave radiation.

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