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Titolo	Low-Dimensional Systems [[electronic resource]] : Interactions and Transport Properties / / edited by Tobias Brandes
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Note generali	"Proceedings of the 219th workshop supported by WE Heraeus Foundation."
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Transport and Interactions in One Dimension -- Nonequilibrium Mesoscopic Conductors Driven by Reservoirs -- A Linear Response Theory of 1D-Electron Transport Based on Landauer Type Model -- Gapped Phases of Quantum Wires -- Interaction Effects in One-Dimensional Semiconductor Systems -- Correlated Electrons in Carbon Nanotubes -- Bosonization Theory of the Resonant Raman Spectra of Quantum Wires -- Transport and Interactions in Zero and Two Dimensions -- An Introduction to Real-Time Renormalization Group -- Spin States and Transport in Correlated Electron Systems -- Non-linear Transport in Quantum-Hall Smectics -- Thermodynamics of Quantum Hall Ferromagnets.
Sommario/riassunto	This book covers recent advances relating to electronic transport properties of interacting low-dimensional systems. Detailed articles written by leading experts allow newcomers and advanced students to us is as a modern textbook, including many references for further

study. Topics are interactions and new phases in one-dimensional systems and the identification of power laws in transport and optical properties, carbon nanotubes, non-equilibrium transport in zero and one dimension, spin-related effects, and novel effects in two-dimensional systems under quantum Hall conditions.