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Titolo	Quantum Coherence [[electronic resource]] : From Quarks to Solids / / edited by Walter Pötz, Jaroslav Fabian, Ulrich Hohenester
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Nota di contenuto	Entanglement, Bell Inequalities and Decoherence in Particle Physics (R. A. Bertlmann) -- Quantum Gates and Decoherence (S. Scheel et al) -- Spin-Based Quantum Dot Quantum Computing (X. Hu) -- Microscopic Theory of Coherent Semiconductor Optics (T. Meier et al) -- Exciton and Polariton Condensation (D. Porras et al).
Sommario/riassunto	Quantum coherence is a phenomenon that plays a crucial role in various forms of matter. The thriving field of quantum information, as well as unconventional approaches to use mesoscopic systems in future optoelectronic devices, provide the exciting background for this set of lectures. The lectures originate from the well-known Schladming Winter Schools and are carefully edited so as to address a broad readership ranging from the beginning graduate student up to the senior scientist wanting to keep up with or to enter newly emerging fields of research.