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This book highlights the state-of-the-art qubit implementations in semiconductors, providing an extensive overview of this newly emerging field. Semiconductor nanostructures have huge potential as future quantum information devices as they provide simultaneously various ways of qubit implementation (electron spin, electronic excitation) as well as a way to transfer quantum information from these stationary qubits to flying qubits (photons). For this reason, this book unites contributions from leading experts in the field, reporting cutting-edge results on spin qubit preparation, read-out, and transfer. The latest theoretical as well as experimental studies of decoherence in these quantum information systems are also provided. Novel demonstrations of complex flying qubit states and first applications of semiconductor-based quantum information devices are given too.