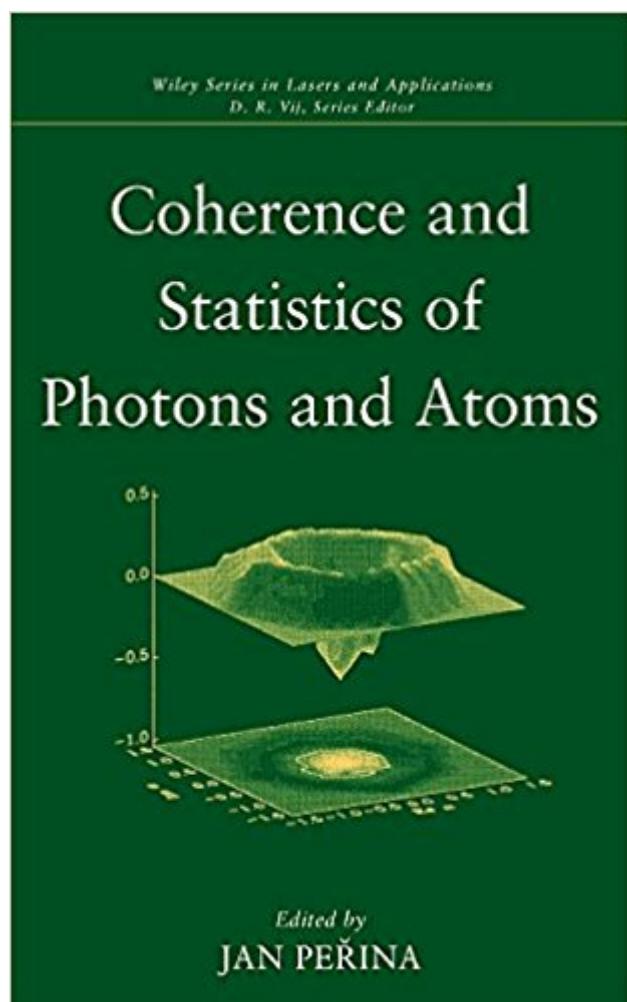


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Coherence And Statistics Of Photons And Atoms



Synopsis

Up-to-date, expert new research in quantum optics and its applications Coherence and Statistics of Photons and Atoms provides cutting-edge research in modern quantum optics and complete information about systems of interacting photons and atoms based on the quantum statistical properties of such systems. Editor Jan Perina has collected eleven articles from experts around the world to illuminate the changing science of quantum optics and push the development of new, more powerful, applications such as quantum cryptography, quantum computation, and quantum teleportation. Recent articles highlight the most interesting directions in the development of contemporary quantum optics with important consequences for other physical sciences and their applications. The first chapter presents a basic analysis of quantum electrodynamics, including cavities, followed by chapters devoted to properties of photons and atoms and their interactions in quantum computers. Other articles cover these vital subjects: * Nonlinear quantum couplers * Internal correlations in optical pulses * Detection and reconstruction of quantum states from the point of view of quantum information * Quantum interference, coherence, and correlation * Quantum information and teleportation * Interaction of atoms with squeezed reservoirs * Quantum statistics and coherence of trapped atoms * Dynamics of systems of atoms Coherence and Statistics of Photons and Atoms extends earlier treatments to include up-to-date results and organizes them into a form suitable for further research in the fundamental concepts of quantum optics and in new optical applications. Comprehensive discussions of preparation, transmission, detection, and reconstruction of quantum states, as well as in-depth coverage of quantum computing, make this the most complete source of new information available to students and professionals.

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