



# **Quantum Optics and the Spectroscopy of Solids: Concepts and Advances (Fundamental Theories of Physics)**

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# Quantum Optics and the Spectroscopy of Solids: Concepts and Advances (Fundamental Theories of Physics)

## Quantum Optics and the Spectroscopy of Solids: Concepts and Advances (Fundamental Theories of Physics)

Remarkable recent progress in quantum optics has given rise to extremely precise quantum measurements that are used in the research into the fundamentals of quantum physics, and in different branches of physics such as optical spectroscopy. This progress stimulates new technologies in the field of optical communications, optical computation and information systems.

This state-of-the-art volume presents work from a *Summer School on Advances in Quantum Optics and Spectroscopy of Solids*, held in Ankara, Turkey, in 1995. The various contributions written by leading scientists in the field cover a wide range of subjects in this exciting area of physics, and report new and important results and ideas.

Topics dealt with include the interaction of quantum light with trapped atoms and condensed matter; quantum tomography and phase analysis; and many applications of quantum optics from mesoscopic physics to correlation spectroscopy of non-classical states, which are of major importance in understanding the nature of collective excitations in solids.

*Audience:* This book will be of interest to postgraduate students and researchers whose work involves quantum optics, solid state spectroscopy and its applications.

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