



## Quantum Statistics of Linear and Nonlinear Optical Phenomena (Hardback)

By Jan Perina

Springer, Netherlands, 1992. Hardback. Condition: New. 2nd ed. 1991. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The quantum statistical properties of radiation represent an important branch of modern physics with rapidly increasing applications in spectroscopy, quantum generators of radiation, optical communication, etc. They have also an increasing role in fields other than pure physics, such as biophysics, psychophysics, biology, etc. Interesting applications have been developed in high energy elementary particle collisions. The present monograph represents an extension and continuation of the previous monograph by this author entitled Coherence of Light (Van Nostrand Reinhold Company, London 1972, translated into Russian in the Publishing House Mir, Moscow 1974, second edition published by D. Reidel, Dordrecht-Boston 1985) and of a review chapter in Progress in Optics, Vol. 18 (edited by E. Wolf, North-Holland Publishing Company, Amsterdam 1980) as well. It applies the fundamental tools of the coherent-state technique, as described in Coherence of Light, to particular studies of the quantum statistical properties of radiation interacting with matter. In particular, nonlinear optical processes are considered, and purely quantum phenomena such as antibunching of photons, their sub-Poisson behaviour and squeezing of vacuum fluctuations are discussed. Compared to the first edition of...



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