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The book provides an introduction to the methods of quantum statistical mechanics used in quantum optics and their application to the quantum theories of the single-mode laser and optical bistability. The generalized representations of Drummond and Gardiner are discussed together with the more standard methods for deriving Fokker-Planck equations.

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Carmichael H.J. Statistical Methods in Quantum Optics 2.. Non-Classical Fields (Springer, 2007)(ISBN 3540713190)

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Statistical Methods in Quantum Optics 2 H. J. Carmichael We proceed now from the macroscopic theory of the previous chapter to the analysis of quantum fluctuations for many atoms in a cavity.

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Statistical Methods in Quantum Optics 1: Master Equations ...

Quantum optics deals primarily with dynamics, quantum dynamics, and in doing so makes extensive use of words like "quantum fluctuations" and "quantum noise. " The words seem harmless enough. Surely the ideas behind them are quite clear; after all, quantum mechanics is a statistical theory, and in its dynamical aspects it is therefore a theory of fluctuations.

Statistical Methods in Quantum Optics 1: Master Equations ...

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Its early chapters build upon the phase-space methods introduced in the first volume Statistical Methods in Quantum Optics 1 - Master Equations and Fokker-Planck Equations : the difficulties these methods face in treating non-classical light are exposed, where the regime of large fluctuations - failure of the system size expansion - is shown to be particularly problematic.

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