



Statistical Methods in Quantum Optics 1: Master Equations and Fokker-Planck Equations (Theoretical and Mathematical Physics) (v. 1)

By Howard J. Carmichael

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This is the first of a two-volume presentation on current research problems in quantum optics, and will serve as a standard reference in the field for many years to come. 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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Review

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"The book is carefully written, in considerable detail, paying attention to both foundations and applications. It contains exercises completing or generalizing the material presented, and ample references to the literature. It is, therefore, very useful as the basis for a course." (V.R. Vieira, Mathematical Reviews, 2000f)

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From the Back Cover

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. Particular attention is given to the theory of optical bistability formulated in terms of the positive P-representation, and the theory of small bistable systems. This is a textbook at an advanced graduate level. It is intended as a bridge between an introductory discussion of the master equation method and problems of current research.

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