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Autore	Glauber Roy J.
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Nota di contenuto	Quantum Theory of Optical Coherence; Contents; Foreword; 1 The Quantum Theory of Optical Coherence; 1.1 Introduction; 1.2 Elements of Field Theory; 1.3 Field Correlations; 1.4 Coherence; 1.5 Coherence and Polarization; Appendix; References; 2 Optical Coherence and Photon Statistics; 2.1 Introduction; 2.1.1 Classical Theory; 2.2 Interference Experiments; 2.3 Introduction of Quantum Theory; 2.4 The One-Atom Photon Detector; 2.5 The n-Atom Photon Detector; 2.6 Properties of the Correlation Functions; 2.6.1 Space and Time Dependence of the Correlation Functions; 2.7 Diffraction and Interference 2.7.1 Some General Remarks on Interference 2.7.2 First-Order Coherence; 2.7.3 Fringe Contrast and Factorization; 2.8 Interpretation of Intensity Interferometer Experiments; 2.8.1 Higher Order Coherence and Photon Coincidences; 2.8.2 Further Discussion of Higher Order Coherence; 2.8.3 Treatment of Arbitrary Polarizations; 2.9 Coherent

and Incoherent States of the Radiation Field; 2.9.1 Introduction; 2.9.2 Field-Theoretical Background; 2.9.3 Coherent States of a Single Mode; 2.9.4 Expansion of Arbitrary States in Terms of Coherent States 2.9.5 Expansion of Operators in Terms of Coherent State Vectors 2.9.6 General Properties of the Density Operator; 2.9.7 The P Representation of the Density Operator; 2.9.8 The Gaussian Density Operator; 2.9.9 Density Operators for the Field; 2.9.10 Correlation and Coherence Properties of the Field; 2.10 Radiation by a Predetermined Charge-Current Distribution; 2.11 Phase-Space Distributions for the Field; 2.11.1 The P Representation and the Moment Problem; 2.11.2 A Positive-Definite "Phase Space Density"; 2.11.3 Wigner's "Phase Space Density" 2.12 Correlation Functions and Quasiprobability Distributions 2.12.1 First Order Correlation Functions for Stationary Fields; 2.12.2 Correlation Functions for Chaotic Fields; 2.12.3 Quasiprobability Distribution for the Field Amplitude; 2.12.4 Quasiprobability Distribution for the Field Amplitudes at Two Space-Time Points; 2.13 Elementary Models of Light Beams; 2.13.1 Model for Ideal Laser Fields; 2.13.2 Model of a Laser Field With Finite Bandwidth; 2.14 Interference of Independent Light Beams; 2.15 Photon Counting Experiments; References; 3 Correlation Functions for Coherent Fields 3.1 Introduction 3.2 Correlation Functions and Coherence Conditions; 3.3 Correlation Functions as Scalar Products; 3.4 Application to Higher Order Correlation Functions; 3.5 Fields With Positive-Definite P Functions; References; 4 Density Operators for Coherent Fields; 4.1 Introduction; 4.2 Evaluation of the Density Operator; 4.3 Fully Coherent Fields; 4.4 Unique Properties of the Annihilation Operator Eigenstates; References; 5 Classical Behavior of Systems of Quantum Oscillators; References; 6 Quantum Theory of Parametric Amplification I; 6.1 Introduction 6.2 The Coherent States and the P Representation

Sommario/riassunto

A summary of the pioneering work of Glauber in the field of optical coherence phenomena and photon statistics, this book describes the fundamental ideas of modern quantum optics and photonics in a tutorial style. It is thus not only intended as a reference for researchers in the field, but also to give graduate students an insight into the basic theories of the field. Written by the Nobel Laureate himself, the concepts described in this book have formed the basis for three further Nobel Prizes in Physics within the last decade.

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