



Elements of Quantum Optics

By Pierre Meystre, Murray Sargent

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With a new chapter on quantum entanglement and quantum information, as well as added discussions of the quantum beam splitter, electromagnetically induced transparency, slow light and the input-output formalism, this fourth edition of the brilliant work on quantum optics has been much updated. It still gives a self-contained and broad coverage of the basic elements necessary to understand and carry out research in laser physics and quantum optics, including a review of basic quantum mechanics and pedagogical introductions to system-reservoir interactions and to second quantization. The text reveals the close connection between many seemingly unrelated topics, such as probe absorption, four-wave mixing, optical instabilities, resonance fluorescence and squeezing.

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Elements of Quantum Optics By Pierre Meystre, Murray Sargent Bibliography

- Sales Rank: #2267419 in Books
- Published on: 2007-11-14
- Original language: English
- Number of items: 1
- Dimensions: 9.42" h x 1.32" w x 6.38" l, 1.96 pounds
- Binding: Hardcover
- 507 pages

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Editorial Review

Review

FROM THE REVIEWS: JOURNAL OF MODERN OPTICS "The second edition has been revised and updated with new material on the effects of light pressure on atoms and on atomic optics. It is concise and my own research students find it to be a sympathetic and intelligible introduction. It is particularly good on supplying the core of a problem so that the new student can go to more advanced monographs with the requisite insight and confidence needed to tackle contemporary research topics."

From the Back Cover

Elements of Quantum Optics gives a self-contained and broad coverage of the basic elements necessary to understand and carry out research in laser physics and quantum optics, including a review of basic quantum mechanics and pedagogical introductions to system-reservoir interactions and to second quantization. The text reveals the close connection between many seemingly unrelated topics, such as probe absorption, four-wave mixing, optical instabilities, resonance fluorescence and squeezing. It also comprises discussions of cavity quantum electrodynamics and atom optics. The 4th edition includes a new chapter on quantum entanglement and quantum information, as well as added discussions of the quantum beam splitter, electromagnetically induced transparency, slow light, and the input-output formalism needed to understand many problems in quantum optics. It also provides an expanded treatment of the minimum-coupling Hamiltonian and a simple derivation of the Gross-Pitaevskii equation, an important gateway to research in ultracold atoms and molecules.

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