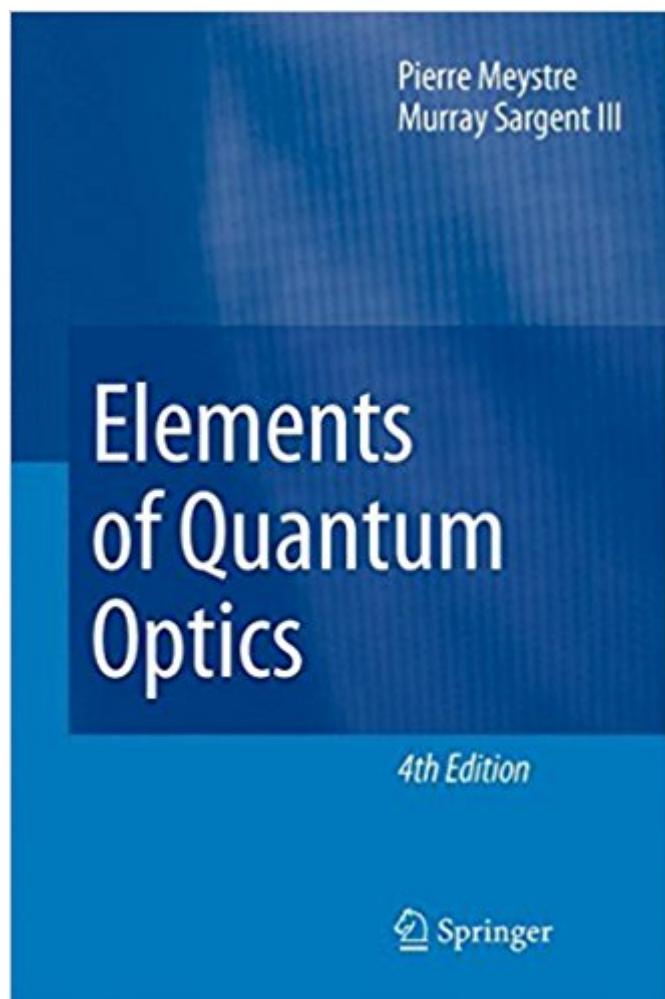


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Elements Of Quantum Optics



Synopsis

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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Customer Reviews

Firstly, I would like to say thanks to the authors, I am an experimentalist who was lack of the theoretical training, I read the book by self-studying. The style of this book inherit the book "Laser physics" (by Sargent, Scully, Lamb), which is also my favorite. Especially, in the new editing, Meystre update new topics in the field of modern quantum optics (such as cavity QED) which I think also very good for self-study. However, the new typesetting of the book makes me somehow uncomfortable since the spacing of the lines is too compact. I would appreciate the editing/typesetting of the second editing.

Good as an introductory monograph, poor textbook. All the information is present, but it is not well

organized for self learning or course development. Nevertheless it is worth reading if you are interested in this field. If you are new to the material, start elsewhere, then come look at this book.

A must for Post-graduate students of applied electronics, electro-optics, and applied quantum mechanics.

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