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Quantum optics: an introduction aims to introduce a wide range of topics at a lower level suitable for advanced undergraduate and masters level students in physics. The text is divided into four main parts, covering modern topics in both pure and applied quantum optics: I Introduction and background material. II. Photons. III. Atom-photon interactions.

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Physics Today 60, 9, 74 (2007); <https://doi.org/10.1063/1.2784691>. Quantum Optics:An Introduction , Mark Fox , Oxford U. Press, New York, 2006. \$44.50 paper (400 pp.). ISBN 978-0-19-856673-1 Buy at Amazon. Quantum optics,literally the study of quantized light, has morphed into a name for the investigations of the interactions between light and matter, with an emphasis on qualitative microscopic models, time dependence, and coherence,rather than on the ...

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This is an excellent introductory text to quantum optics for people with a background in quantum and classical optical physics. It is aimed at physics graduates, although it is also suitable for motivated third year undergraduates looking to get a head start in quantum optics.

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This is the new textbook on quantum optics written by the distinguished theoretical physicist G. S. Agarwal. It covers not only standard topics in quantum optics, but also several quite recent developments in the field such as quantum optics in integrated structures and quantum optical effects in nano-mechanical systems for instance.