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Abstract: This article provides an introduction to the quantum theory of optics in nonlinear dielectric media. We begin with a short summary of the classical theory of nonlinear optics, that is nonlinear optics done with classical fields. We then discuss the canonical formalism for fields and its quantization.

[0901.3439] An Introduction to the Quantum Theory of

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Nonlinear optics, Quantum optics, Field quantization

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Nonlinear optics is concerned with understanding the behavior of light-matter interactions when the material's response is a nonlinear function of the applied electromagnetic field. In this book, we focus on building a fundamental understanding of wave propagation in a nonlinear medium, and the phenomena that result.

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Quantum Nonlinear Optics in Atomically Thin Materials Dominik S. Wild, Ephraim Shahmoon, Susanne F. Yelin,^{1,2} and Mikhail D. Lukin¹ ¹Department of Physics, Harvard University, Cambridge, MA 02138, USA ²Department of Physics, University of Connecticut, Storrs, CT 06269, USA We show that a nonlinear optical response associated with a resonant, atomically thin material can

Quantum Nonlinear Optics in Atomically Thin Materials

Second- and third-order nonlinear optical processes, which will be described in Chap. 6, play important roles: that is: (a) optical parametric amplification (second order); (b) second-harmonic generation (second order); and (c) degenerate four-wave mixing (third order).

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Chapter 8 Quantum solitons An optical soliton in a fiber can be described classically using the nonlinear Schrödinger equation [13, 14], which is applicable to single mode propagation in nonlinear dispersive fibers

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