



Nonlinear Optics

Robert W. Boyd

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Nonlinear Optics is an advanced textbook for courses dealing with nonlinear optics, quantum electronics, laser physics, contemporary and quantum optics, and electrooptics. Its pedagogical emphasis is on fundamentals rather than particular, transitory applications. As a result, this textbook will have lasting appeal to a wide audience of electrical engineering, physics, and optics students, as well as those in related fields such as materials science and chemistry.

Key Features

- * The origin of optical nonlinearities, including dependence on the polarization of light
- * A detailed treatment of the quantum theory of the nonlinear susceptibility
- * An explication of dressed-atomic states of two-level atoms
- * A complete development of spontaneous and stimulated light scattering
- * A clear discussion of the photorefractive effect
- * An introduction to applications including laser frequency modification, optical phase conjugation, optical bistability, and propagation of optical soliton

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