



Nonlinear Optics

Paul Mandel

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Based on the author's extensive teaching experience and lecture notes, this textbook provides a substantially analytical rather than descriptive presentation of nonlinear optics.

Divided into five parts, with most chapters corresponding to a two-hour lecture, the book begins with a unique account of the historical development from Kirchhoff's law for the black-body radiation to Planck's quantum hypothesis and Einstein's discovery of spontaneous emission - providing all the explicit proofs. The subsequent sections deal with matter quantization, ultrashort pulse propagation in 2-level media, cavity nonlinear optics, $\chi(2)$ and $\chi(3)$ media.

For graduate and PhD students in nonlinear optics or photonics, while also representing a valuable reference for researchers in these fields.



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