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in nonlinear media, that is, media in which the polarization density P responds nonlinearly to the electric field E of the light. The non-linearity is typically observed only at very high light intensities (values of atomic electric fields, typically 10^8 V/m) such as those provided by lasers.

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"Nonlinear Optics" 3rd edition (Academic Press, 2008) by Robert W. Boyd; the U of T Bookstore has stocked some copies. This book is also available as a free eBook in downloadable PDF from the U of T Libraries, using your UTORid. Other useful texts "The Principles of Nonlinear Optics" by Y.R. Shen (Wiley-Interscience).

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Nonlinear Optics Third Edition Robert W. Boyd The Institute of Optics University of Rochester Rochester, New York USA ... Perturbation Solution of the Density Matrix Equation of Motion 158 ... Nonlinear Optics in the Two-Level Approximation 277
 6.1. Introduction 277

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 Nonlinear optical phenomena are

“nonlinear” in the sense that they occur when the response of a material system to an applied optical field depends in a nonlinear manner on the strength of the optical field. In nonlinear optics, the optical response can be described by expressing the polarization as a power series in the field strength.

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