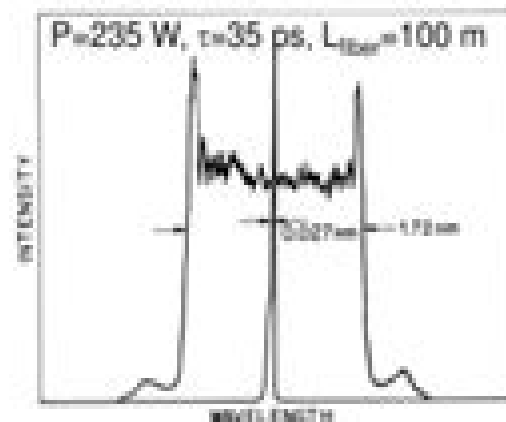


Introduction – Nonlinear optics

- A few examples of nonlinear devices
- This lecture: Nonlinear guided wave optics in dielectrics
 - ⇒ Produces a variety of exotic effects
 - ⇒ Modification of the « color » of a light beam
 - Frequency doubling, frequency conversion
 - Supercontinuum generation
 - ⇒ Amplification of optical signals/ OPO
 - ⇒ Temporal and Spatial control of light
 - Generation of ultra-short pulses
 - Self-focusing, solitons
 - ⇒ Switching in Telecommunication systems
 - ⇒ Electro-optic effect
 - ⇒ All-optical information processing



An Introduction To Nonlinear Optics

Martin Wegener



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An Introduction to Nonlinear Optics George C. Baldwin, 1971 **Introduction to Nonlinear Optics** Geoffrey New, 2011-04-07 Since the early days of nonlinear optics in the 1960s the field has expanded dramatically and is now a vast and vibrant field with countless technological applications Providing a gentle introduction to the principles of the subject this textbook is ideal for graduate students starting their research in this exciting area After basic ideas have been outlined the book offers a thorough analysis of second harmonic generation and related second order processes before moving on to third order effects the nonlinear optics of short optical pulses and coherent effects such as electromagnetically induced transparency A simplified treatment of high harmonic generation is presented at the end More advanced topics such as the linear and nonlinear optics of crystals the tensor nature of the nonlinear coefficients and their quantum mechanical representation are confined to specialist chapters so that readers can focus on basic principles before tackling these more difficult aspects of the subject Extreme Nonlinear Optics Martin Wegener, 2005 Following the birth of the laser in 1960 the field of nonlinear optics rapidly emerged Today laser intensities and pulse durations are readily available for which the concepts and approximations of traditional nonlinear optics no longer apply In this regime of extreme nonlinear optics a large variety of novel and unusual effects arise for example frequency doubling in inversion symmetric materials or high harmonic generation in gases which can lead to attosecond electromagnetic pulses or pulse trains Other examples of extreme nonlinear optics cover diverse areas such as solid state physics atomic physics relativistic free electrons in a vacuum and even the vacuum itself This book starts with an introduction to the field based primarily on extensions of two famous textbook examples namely the Lorentz oscillator model and the Drude model Here the level of sophistication should be accessible to any undergraduate physics student Many graphical illustrations and examples are given The following chapters gradually guide the student towards the current state of the art and provide a comprehensive overview of the field Every chapter is accompanied by exercises to deepen the reader's understanding of important topics with detailed solutions at the end of the book **An Introduction to Nonlinear Optics [by] George C. Baldwin** George Curriden Baldwin, 1969 *Introduction to Nonlinear Optics* Geoffrey H. C. New, 2011 A gentle introduction to the principles of nonlinear optics this textbook is ideal for graduate students starting research Nonlinear Optics Robert W. Boyd, 2020-03-30 Nonlinear Optics Fourth Edition is a tutorial based introduction to nonlinear optics that is suitable for graduate level courses in electrical and electronic engineering and for electronic and computer engineering departments physics departments and as a reference for industry practitioners of nonlinear optics It will appeal to a wide audience of optics physics and electrical and electronic engineering students as well as practitioners in related fields such as materials science and chemistry Presents an introduction to the entire field of optical physics from the perspective of nonlinear optics Combines first rate pedagogy with a treatment of the fundamental aspects of nonlinear optics Covers all the latest topics and technology in this ever evolving industry Contains a

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