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The dynamical evolution of an electromagnetic pulse as it propagates through a homogeneous, isotropic, locally linear, temporally dispersive medium is a classical problem of electromagnetism.

Electromagnetic and Optical Pulse Propagation 2 | Request PDF

ELECTROMAGNETIC THEORY OF LIGHT 159 Electromagnetic optics Wave optics Ray optics Figure 5.0-2 Wave optics is the scalar approximation of electromagnetic optics. Ray the limit of wave optics when the wavelength is very short.

ELECTROMAGNETIC OPTICS - Zhejiang University

Electromagnetic and Optical Pulse Propagation is a very impressive book. It is highly recommended for graduate students, researchers, physicists, and engineers who are working in the field of electromagnetic wave propagation, antennas, microwaves, photonics, and optoelectronics. (Ren© Marklein, Radio Science Bulletin, Issue 333, June, 2010)

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Electromagnetic and Optical Pulse Propagation presents a systematic treatment of the radiation and propagation of transient electromagnetic and optical wave fields (such as those used in ultrawideband radar and communications systems as well as in ultrashort pulsed optics) through causal, locally linear media which exhibit both temporal dispersion and absorption.

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Electromagnetic optics theory of optical pulse propagation, dispersive and nonlinear effects, pulse compression, optical solitons The frequency spectrum of a Gaussian pulse can be written as $\hat{a}^{\omega} \hat{a}^{\omega_0} \hat{a}^{\omega_0}$

Theory of optical pulse propagation - LMU Munich

The dynamical evolution of an electromagnetic pulse as it propagates through a homogeneous, isotropic, locally linear, temporally dispersive medium is a classical problem of electromagnetism.

Electromagnetic and optical pulse propagation 2. Temporal

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THE ELECTROMAGNETIC PULSE AND ITS EFFECTS

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