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G. P. Agrawal. Published 1989. Engineering, Physics. Nonlinear fiber optics concerns with the nonlinear optical phenomena occurring inside optical fibers. Although the field of nonlinear optics

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traces its beginning to 1961, when a ruby laser was first used to generate the second-harmonic radiation inside a crystal [1], the use of optical fibers as a nonlinear medium became feasible only after 1970 when fiber losses were reduced to below 20 dB/km [2].

[PDF] Nonlinear Fiber Optics / Semantic Scholar

Use Maxwell's equations to express the field components E_{ϕ}, H_{ϕ} inside the fiber core in terms E_z, H_z . Neglect the nonlinear part of the polarization.

Problem 2.1 Nonlinear Fiber Optics, Agrawal

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dB/km [2].

Nonlinear Fiber Optics / SpringerLink

The underlying nonlinear Schrödinger equation is used to discuss the nonlinear phenomenon of self-phase modulation that leads to the formation of solitons in the presence of anomalous dispersion.

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