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Govind Agrawal Author. He joined in 1989 the faculty of the Institute of Optics at the University of Rochester where he is a Professor of Optics. His research interests focus on quantum electronics, nonlinear optics, and optical communications. In particular, he has contributed significantly to the fields of semiconductor lasers,...

Nonlinear Fiber Optics - 5th Edition - Elsevier

The Optical Society of America (OSA) and SPIE – The International Society for Optical Engineering have awarded Govind Agrawal with an honorable mention for the Joseph W. Goodman Book Writing Award for his work on Nonlinear Fiber Optics, 3rd edition.

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Nonlinear Fiber Optics Fourth Edition GOVIND P. AGRAWAL The Institute of Optics University of Rochester Rochester, New York AMSTERDAM • BOSTON • HEIDELBERG • LONDON NEW YORK • OXFORD • PARIS • SAN DIEGO SAN FRANCISCO • SINGAPORE • SYDNEY • TOKYO Academic Press is an imprint of Elsevier

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Refractive index depends on optical intensity as (Kerr effect) $n(\omega;I) = n_0(\omega) + n_2 I(t)$: Frequency dependence leads to dispersion and pulse broadening. Intensity dependence leads to nonlinear phase shift $\phi_{NL}(t) = (2\pi/L) n_2 I(t)L$: An optical field modifies its own phase (thus, SPM). Phase shift varies with time for pulses (chirping).

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Since the 4e appeared, a fast evolution of the field has occurred. The 5e of this classic work provides an up-to-date account of the nonlinear phenomena occurring inside optical fibers, the basis of all our telecommunications infrastructure as well as being used in the medical field.

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The Optical Society of America (OSA) and SPIE – The International Society for Optical Engineering have awarded Govind Agrawal with an honorable mention for the Joseph W. Goodman Book Writing Award for his work on Nonlinear Fiber Optics, 3rd edition. Nonlinear Fiber Optics, 3rd Edition, provides a comprehensive and up-to-date account of the nonlinear phenomena occurring inside optical fibers.

Nonlinear Fiber Optics - Govind Agrawal - Google Books

P. C. Becker, N. A. Olsson, and J. R. Simpson, Erbium-Doped Fiber Amplifiers: Fundamentals and Technology Raman Kashyap, Fiber Bragg Gratings Katsunari Okamoto, Fundamentals of Optical Waveguides Govind P. Agrawal, Applications of Nonlinear Fiber Optics A complete list of titles in this series appears at the end of this volume.

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the field of nonlinear optics traces its beginning to 1961, Problems Nonlinear Fiber Optics Agrawal Solutions The fourth edition of this classic work provides an up-to-date account of the nonlinear phenomena occurring inside optical fibers. Problems Nonlinear Fiber Optics Agrawal Solutions

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Publisher Summary. It reviews the Maxwell's equations and concepts such as—the linear and non-linear parts of the induced polarization and the frequency-dependent dielectric constant. The concept of fiber modes with the single-mode condition is also discussed. The two orthogonally polarized modes of a single-mode fiber are degenerate; that is,...

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

Problem 2.1 Nonlinear Fiber Optics, Agrawal

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Nonlinear Fiber Optics: Prof Govind P. Agrawal ...

Abstract. Nonlinear fiber optics concerns with the nonlinear optical phenomena occurring inside optical fibers. Although the field of nonlinear optics 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...

Nonlinear Fiber Optics | SpringerLink

P. C. Becker, N. A. Olsson, and J. R. Simpson, Erbium-Doped Fiber Amplifiers: Fundamentals and Technology Raman Kashyap, Fiber Bragg Gratings Katsunari Okamoto, Fundamentals of Optical Waveguides Govind P. Agrawal, Nonlinear Fiber Optics, Third Edition A complete list of titles in this series appears at the end of this volume.

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Professor Agrawal is a Fellow of the Optical society (OSA) and a Life Fellow of IEEE. ... Some universities may even opt to offer a high-level graduate course devoted to solely nonlinear fiber optics. The problems provided at the end of each chapter should be useful to instructors of such a course.

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