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Nonlinear Fiber Optics and its Applications in Optical Signal Processing Govind P. Agrawal Institute of Optics University of Rochester Rochester, NY 14627 c 2007 G. P. Agrawal

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* The only book describing applications of nonlinear fiber optics * Two new chapters on the latest developments: highly nonlinear fibers and quantum applications* Coverage of biomedical applications* Problems provided at the end of each chapterThe development of new highly nonlinear fibers - referred to as microstructured fibers, holey fibers and photonic crystal fibers - is the next ...

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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 ed.) by Govind Agrawal (ebook)
Since the 3rd edition appeared, a fast evolution of the field has occurred. The fourth edition of this classic work provides an up-to-date account of the nonlinear phenomena occurring inside optical fibers. The contents include such important topics as self- and cross-phase modulation, stimulated Raman and Brillouin scattering, four-wave mixing, modulation instability, and optical solitons.

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Chapter 8 focuses on the use of wavelength- and time-division multiplexing techniques for optical networks. Code-division multiplexingis also a part of this chapter. The use of optical solitons for fiber-optic systems is discussed in Chap- ter 9. Coherent lightwave systems are now covered in the last chapter.

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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 infastructure as well as being used in the medical field.

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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...

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

Problem 2.1 Nonlinear Fiber Optics, Agrawal
This chapter provides an overview of the fiber characteristics that are important for understanding various non-linear effects. It outlines a historical perspective on the progress in the field of fiber optics. Various fiber properties–– such as, optical loss, chromatic dispersion, and birefringence are also discussed.

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