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New York, and the Laser company, Quantel, Orsay, France, Dr. Agrawal joined in 1981 the technical staff of the world-famous AT&T Bell Laboratories, Murray Hill, N.J., USA, where he worked on problems related to the development of semiconductor lasers and fiber-optic communication systems.

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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.

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born on ... where he worked on problems related to the development of semiconductor lasers and fiber-optic communication systems. He joined in 1989 the faculty of ... (Van Nostrand Reinhold, 2nd ed. 1993), "Nonlinear Fiber Optics" (Academic Press, 3rd ed. 2001), "Fiber-Optic Communication Systems" (Wiley, 2nd

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This review begins with an historical

introduction to the field of nonlinear fiber optics and then focuses on the propagation of short optical pulses inside optical fibers.

The underlying nonlinear Schrödinger equation is used to discuss the nonlinear phenomenon of self-phase modulation that leads to the formation

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of solitons in the presence of anomalous dispersion.

OSA | Nonlinear fiber optics: its history and recent ...

Section provides a historical perspective on the progress in the field of fiber optics.

Section discusses various fiber properties such as optical loss, chromatic dispersion, and birefringence.

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paid to chromatic dispersion because of its importance in the study of nonlinear effects probed by using ultrashort optical pulses.

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Nonlinear Fiber Optics by Govind Agrawal.

Nonlinear Fiber Optics deals with various nonlinear phenomena in optical fibers,

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including wave propagation, group-velocity dispersion, self-phase modulation, optical pulse compression, cross-phase modulation, stimulated Raman scattering and Brillouin scattering, and parametric processes.

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The third edition describes the latest research on nonlinear fiber optics that have been applied since the 2 nd edition was published.

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principles are applied in practice; About the author. Govind P.

Agrawal received his B.Sc. degree from the University of Lucknow in 1969 with honours.

Applications of Nonlinear Fiber Optics: Agrawal, Govind P ...

The extensively revised chapters include information on fiber-optic communication systems and the

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ultrafast signal processing techniques that make use of nonlinear phenomena in optical fibers. New material focuses on the applications of highly nonlinear fibers in areas ranging from wavelength laser tuning and nonlinear spectroscopy to biomedical imaging and frequency metrology.

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