



Nonlinear Fiber Optics (Optics and Photonics)

Govind Agrawal

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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. It retains most of the material that appeared in the first edition, with the exception of Chapter 6, which is now devoted to the polarization effects relevant for light propagation in 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. A proper understanding of these topics is essential for scientists and engineers interested in various aspects of lightwave technology.

Such an ambitious objective increased the size of the book to the extent that it was necessary to create a separate but complimentary book, Applications of Nonlinear Fiber Optics, which is devoted to applications in the domain of lightwave technology.

This revised edition of Nonlinear Fiber Optics should serve well the needs of the scientific community including graduate students in Optics, Physics, and Electrical Engineering, engineers in the optical communication industry, and scientists working in fiber optics and nonlinear optics.

- * Only book dealing with Nonlinear Fiber Optics
- * Comprehensive up-to-date coverage of the entire field
- * Problems at the end of each chapter suitable for a course
- * Focus on fundamental aspects
- * Can be used by graduate students doing research in or taking courses in nonlinear optics and optical communications

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