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Description The development of new highly nonlinear fibers - referred to as microstructured fibers, holey fibers and photonic crystal fibers - is the next generation technology for all-optical signal processing and biomedical applications. This new edition has been thoroughly updated to incorporate these key technology developments.

Applications of Nonlinear Fiber Optics - 2nd Edition

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Nonlinear fiber optics concerns with the nonlinear optical phenomena occurring

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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 after 1970 when fiber losses were reduced to below 20 dB/km ...

NONLINEAR OPTICS. - Basic Concepts, 2nd edition en anglais ...

The development of new highly nonlinear fibers - referred to as microstructured fibers, holey fibers and photonic crystal fibers - is the next generation technology for all-optical signal processing and biomedical applications. This new edition has been thoroughly updated to incorporate these key technology developments.

Applications of Nonlinear Fiber Optics | ScienceDirect

By 1989, the field of nonlinear fiber optics has advanced enough that a whole book was devoted to it [5]. This book or its second edition has been translated into Chinese, Japanese, and Russian languages, attesting to the worldwide activity in the field of nonlinear fiber optics.

Nonlinear Fiber Optics | SpringerLink

Continues to be industry bestseller providing unique source of comprehensive coverage on the subject of nonlinear fiber optics ; Fourth Edition is a completely up-to-date treatment of the nonlinear phenomena occurring inside optical fibers Includes 2 NEW CHAPTERS on the properties of highly nonlinear fibers and their

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Nonlinear Fiber Optics - 6th Edition - Elsevier

Nonlinear Fiber Optics 5th Edition. Author: Govind Agrawal. Hardcover ISBN: ...
12.4 Second-Harmonic Generation. 12.5 Third-Harmonic Generation. Problems .
References. Chapter 13. Supercontinuum Generation. 13.1 Pumping with Picosecond Pulses. 13.2 Pumping with Femtosecond Pulses. 13.3 Temporal and Spectral Evolutions. 13.4 CW or Quasi-CW Pumping. 13.5 Polarization Effects. 13.6 Coherence ...

Nonlinear Fiber Optics - 5th Edition - Elsevier

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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

Nonlinear Fiber Optics - Govind P. Agrawal - Google Books

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

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scattering, four-wave mixing, modulation instability, and optical solitons ...

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Applications of Nonlinear Fiber Optics (2nd Edition) - Knovel

Applications of Nonlinear Fiber Optics, Third Edition presents sound coverage of the fundamentals of lightwave technology, along with material on pulse compression techniques and rare-earth-doped fiber amplifiers and lasers. The book's chapters include information on fiber-optic communication systems and the ultrafast signal processing techniques that make use of nonlinear phenomena in optical ...

Applications of Nonlinear Fiber Optics - 3rd Edition

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