



# Nonlinear Fiber Optics: Formerly Quantum Electronics (Optics and Photonics)

*Govind Agrawal*

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The field of nonlinear fiber optics has grown substantially since the First Edition of **Nonlinear Fiber Optics**, published in 1989. Like the First Edition, this Second Edition is a comprehensive, tutorial, and up-to-date account of nonlinear optical phenomena in fiber optics. It synthesizes widely scattered research material and presents it in an accessible manner for students and researchers already engaged in or wishing to enter the field of nonlinear fiber optics. Particular attention is paid to the importance of nonlinear effects in the design of optical fiber communication systems. This is a completely new book containing either new sections or major revisions in every chapter.

Major changes in **Soliton-based Communication Systems**

New section on **Photonic Switching**

New section on the **Nonlinear Fiber-loop Mirror**

Section on **Second-harmonic Generation** will be expanded to include new research material

Two new chapters have been added on **Fiber Amplifiers** and **Fiber Lasers**, two major research areas which have grown significantly during the last 4-5 years

All references have been completely updated

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