



Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics)

By Govind Agrawal



Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal

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 infrastructure as well as being used in the medical field.

Reflecting the big developments in research, this new edition includes major new content: slow light effects, which offers a reduction in noise and power consumption and more ordered network traffic-stimulated Brillouin scattering; vectorial treatment of highly nonlinear fibers; and a brand new chapter on supercontinuum generation in optical fibers.

- Continues to be industry bestseller providing unique source of comprehensive coverage on the subject of nonlinear fiber optics
- Updated coverage of intrapulse Raman scattering, four-wave mixing, and Harmonic Generation
- Includes a new chapter exclusively devoted to supercontinuum generation in optical fibers

 [Download Nonlinear Fiber Optics, Fifth Edition \(Optics and ...pdf](#)

 [Read Online Nonlinear Fiber Optics, Fifth Edition \(Optics an ...pdf](#)

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics)

By Govind Agrawal

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal

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 infrastructure as well as being used in the medical field.

Reflecting the big developments in research, this new edition includes major new content: slow light effects, which offers a reduction in noise and power consumption and more ordered network traffic-stimulated Brillouin scattering; vectorial treatment of highly nonlinear fibers; and a brand new chapter on supercontinuum generation in optical fibers.

- Continues to be industry bestseller providing unique source of comprehensive coverage on the subject of nonlinear fiber optics
- Updated coverage of intrapulse Raman scattering, four-wave mixing, and Harmonic Generation
- Includes a new chapter exclusively devoted to supercontinuum generation in optical fibers

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal Bibliography

- Sales Rank: #1048426 in Books
- Brand: Academic Press
- Published on: 2012-10-24
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x 1.50" w x 7.50" l, 3.30 pounds
- Binding: Hardcover
- 648 pages



[Download Nonlinear Fiber Optics, Fifth Edition \(Optics and ...pdf](#)



[Read Online Nonlinear Fiber Optics, Fifth Edition \(Optics an ...pdf](#)

Download and Read Free Online Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal

Editorial Review

Review

Taking into account recent research on polarization, additions have been made to chapters on stimulated Raman scattering and four-wave mixing. Targeted for optical engineers, researchers, scientist and graduate students, the 549-page volume addresses pulse propagation in fibers.-*Photonics Spectra*, january 2007

About the Author

Govind P. Agrawal was born on July 24, 1951 in the town of Kashipur of the Nainital district in U.P. He received his B.Sc. degree from the University of Lucknow in 1969 with honors. He was awarded a gold medal for achieving the top position in the university. Govind joined the Indian Institute of Technology at New Delhi in 1969 and received the M.Sc. and Ph.D. degrees in 1971 and 1974, respectively. After holding positions at the Ecole Polytechnique (France), the City University of 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. He joined in 1989 the faculty of the Institute of Optics at the University of Rochester where he is a Professor of Optics. His research interests focus on quantum electronics, nonlinear optics, and optical communications. In particular, he has contributed significantly to the fields of semiconductor lasers, nonlinear fiber optics, and optical communications. He is an author or coauthor of more than 250 research papers, several book chapters and review articles, and four books entitled "Semiconductor Lasers" (Van Nostrand Reinhold, 2nd ed. 1993), "Nonlinear Fiber Optics" (Academic Press, 3rd ed. 2001), "Fiber-Optic Communication Systems" (Wiley, 2nd ed. 1997), and "Applications of Nonlinear Fiber Optics" (Academic Press, 2001). He has also edited the books "Contemporary Nonlinear Optics" (Academic Press, 1992) and "Semiconductor Lasers: Past, Present and Future" (AIP Press, 1995). The books authored by Dr. Agrawal have influenced an entire generation of scientists. Several of them have been translated into Chinese, Japanese, Greek, and Russian.

Users Review

From reader reviews:

Roger Dupre:

What do you about book? It is not important along with you? Or just adding material when you require something to explain what your own problem? How about your extra time? Or are you busy person? If you don't have spare time to accomplish others business, it is give you a sense of feeling bored faster. And you have free time? What did you do? Every person has many questions above. The doctor has to answer that question since just their can do this. It said that about guide. Book is familiar on every person. Yes, it is appropriate. Because start from on pre-school until university need this specific Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) to read.

Deborah Lake:

This book untitled Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) to be one of several books this best seller in this year, this is because when you read this e-book you can get a lot of benefit on it. You

will easily to buy this kind of book in the book retail outlet or you can order it through online. The publisher with this book sells the e-book too. It makes you quickly to read this book, because you can read this book in your Cell phone. So there is no reason for your requirements to past this publication from your list.

Nora Mickey:

The guide untitled Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) is the reserve that recommended to you to learn. You can see the quality of the publication content that will be shown to an individual. The language that author use to explained their ideas are easily to understand. The author was did a lot of exploration when write the book, and so the information that they share for you is absolutely accurate. You also might get the e-book of Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) from the publisher to make you considerably more enjoy free time.

Pamela Eckert:

Are you kind of active person, only have 10 or even 15 minute in your day to upgrading your mind talent or thinking skill also analytical thinking? Then you have problem with the book in comparison with can satisfy your short time to read it because pretty much everything time you only find book that need more time to be examine. Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) can be your answer as it can be read by an individual who have those short free time problems.

Download and Read Online Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal #5XGD463CROA

Read Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal for online ebook

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal books to read online.

Online Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal ebook PDF download

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal Doc

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal Mobipocket

Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal EPub

5XGD463CROA: Nonlinear Fiber Optics, Fifth Edition (Optics and Photonics) By Govind Agrawal