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discusses the

different activities

in the field of

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**nonlinear optics.
The book is
comprised of 10
chapters. Chapter
1 presents a
description of the
field of nonlinear
guided-wave
optics. Chapter 2
surveys a new
branch of
nonlinear optics
under the heading
optical solitons.**

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Chapter 3 reviews recent progress in the field of optical phase conjugation. Chapter 4 discusses ultrafast nonlinear optics, a field that is growing rapidly with the ability of generating and controlling femtosecond optical pulses.

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Chapter 5
examines a branch
of nonlinear optics
that may be terme

...

The current
research into
solitons and their
use in fiber optic
communications is
very important to
the future of
communications.
Since the advent of

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**computer
networking and
high speed data
transmission
technology people
have been striving
to develop faster
and more reliable
communications
media. Optical
pulses tend to
broaden over
relatively short
distances due to**

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**dispersion, but
solitons on the
other hand are not
as susceptible to
the effects of
dispersion, and
although they are
subject to losses
due to attenuation
they can be
amplified without
being received and
re-transmitted.
This book is the**

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**first to provide a
thorough overview
of optical solitons.**

**The main purpose
of this book is to
present the rapidly
developing field of
Spatial Optical
Solitons starting
from the basic
concepts of light
self-focusing and
self-trapping. It
will introduce the**

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fundamental concepts of the theory of nonlinear waves and solitons in non-integrated but physically realistic models of nonlinear optics including their stability and dynamics. Also, it will summarize a number of important

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**experimental
verification of the
basic theoretical
predictions and
concepts covering
the observation of
self-focusing in the
earlier days of
nonlinear optics
and the most
recent
experimental
results on spatial
solitons, vortex**

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& **solitons, and
soliton interaction
& spiraling. ***

**Introduces the
fundamental
concepts of the
theory of nonlinear
waves and solitons
through realistic
models * Material
is based on
authors' years of
experience actively
working in and**

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**researching the
field * Summarizes
the most important
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ever evolving field
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studies to the most
recent
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Communication
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accomplished
researcher and
author, Dr. Govind
P. Agrawal,**

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**delivers brand-new
updates and
developments in
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substantial
additions covering
the topics of
coherence
detection, space
division
multiplexing, and**

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like fiber's losses,
dispersion, and
nonlinearities, as
well as coherent
lightwave systems.
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has undergone
major changes due
to the extensive
development of
digital coherent**

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**systems over the
last decade. Space-
division**

**multiplexing is
covered as well,
including
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multicore fibers
developed in just
the last ten years.
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concludes with a
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new developments**

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**in the field that are
still at the
development stage
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of the important
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technologies and
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systems, and
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presents complete
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topics that optical
and**

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students need to
be successful.**

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optical and**

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components, to
optical
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system design, and
from conventional
optical fiber links,
to more useful
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datacenters and
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Electronics**

*Optical fiber tel
ecommunication
s depend upon
light traveling*

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great distances through optical fibers. As light travels it tends to disperse and this results in some degree of signal loss.

Raman amplification is a technique that is effective in

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*any fiber to
amplify the
signal light as it
travels through
transmission
fibers,
compensating
for inevitable
signal loss. First
comprehensive
guide to Raman
amplification, a*

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*technique
whose use has
exploded since
1997 in order to
upgrade fiber
capacity*

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professionals
just entering the
field of optical
fiber telecommu-
nications*

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explanations
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*challenges for
WDM, DWDM,
amplifiers,
solitons, and
other key
technologies
Since its
invention in
1962, the
semiconductor
laser has come
a long way.*

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Advances in material purity and epitaxial growth techniques have led to a variety of semiconductor lasers covering a wide wavelength range of 0.3-

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100 ~m. The development during the 1970s of GaAs semiconductor lasers, emitting in the near-infrared region of 0.8-0.9 ~m, resulted in their use for the first generation of

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*optical fiber
communication
systems.*

*However, to
take advantage
of low losses in
silica fibers
occurring
around 1.3 and
1.55 μm , the
emphasis soon
shifted toward*

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*long-wavelength
semiconductor
lasers. The
material system
of choice in this
wavelength
range has been
the quaternary
alloy InGaAsP.
During the last
five years or so,
the intense*

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*development
effort devoted to
InGaAsP lasers
has resulted in a
technology
mature enough
that lightwave
transmission
systems using
InGaAsP lasers
are currently
being deployed*

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*throughout the
world. This book
is intended to
provide a
comprehensive
account of long-
wave length
semiconductor
lasers.*

*Particular
attention is paid
to InGaAsP*

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lasers, although we also consider semiconductor lasers operating at longer wave lengths. The objective is to provide an up-to-date understanding of semicon ductor lasers

while incorporating recent research results that are not yet available in the book form. Although InGaAsP lasers are often used as an example, the basic concepts

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*discussed in this
text apply to all
semiconductor
lasers,
irrespective of
their
wavelengths.
Nonlinear
science is by
now a well
established field
of research at*

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*the interface of
many traditional
disciplines and
draws on the
theoretical
concepts
developed in
physics and
mathematics.
The present
volume gathers
the*

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*contributions of
leading
scientists to
give the state of
the art in many
areas strongly
influenced by
nonlinear
research, such
as superconduct
ion, optics,
lattice*

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*dynamics,
biology and
biomolecular
dynamics. While
this volume is
primarily
intended for
researchers
working in the
field care, has
been taken that
it will also be of*

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*benefit to
graduate
students or
nonexpert
scientist
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familiarize
themselves with
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systems. Optical-
fiber-based
telecommunication
networks have

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become a major information-transmission-system, with high

capacity links

encircling the globe

in both terrestrial

and undersea

installations.

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and active optical

devices within these

links perform

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complex
transmission and
networking functions
in the optical
domain, such as
signal amplification,
restoration, routing,
and switching. Along
with the need to
understand the
functions of these
devices comes the

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necessity to measure
both component and
network

performance, and to
model and stimulate
the complex
behavior of reliable
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covers basic topics
such as transmitters,

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fibers, amplifiers
and receivers and
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noise. Starting with a
review of
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Maxwell's equation, it then moves on to provide information on optical fiber transmissions, laser oscillations, wave particle density and semiconductor laser diodes. This is followed up with chapters covering optical sources,

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optical modulators,
optical receivers,
including coherent
receivers, and optical
amplifiers. The final
part of the book
discusses
performance
analysis, channel
multiplexing
techniques, nonlinear
effects and digital

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signal processing
respectively"--

Since publication of
the 1st edition in
2002, there has been
a deep evolution of
the global
communication
network with the
entry of submarine
cables in the Terabit
era. Thanks to

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optical technologies,
the transmission on a
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Within the past few decades, information technologies have been evolving at a tremendous rate, causing profound changes to our world and our ways of life. In

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particular, fiber optics has been playing an increasingly crucial role within the telecommunication revolution. Not only most long-distance links are fiber based, but optical fibers are

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increasingly
approaching the
individual end
users, providing
wide bandwidth
links to support
all kinds of data-
intensive
applications such
as video, voice,
and data
services. As an

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engineering
discipline, fiber
optics is both
fascinating and
challenging.

Fiber optics is an
area that
incorporates
elements from a
wide range of
techno- gies
including optics,

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microelectronics,
quantum
electronics,
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and networking.

As a result of
rapid changes in
almost all of
these areas, fiber
optics is a fast
evolving field.

Therefore, the

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need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book presents an overview of fiber optics from a practical,

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engineering
perspective.

Therefore, in addition to topics such as lasers, detectors, and optical fibers, several topics related to electronic circuits that generate, detect,

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and process the optical signals are covered. In other words, this book attempts to present fiber optics not so much in terms of a field of "optics" but more from the perspective of an engineering

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field within
"optoelectronics.
This book
systematically
discusses the
nonlinearities in
optics,
optoelectronics
and fiber
communications.
The theory of
optical

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nonlinearity ties
closely with the
fiber

communication
technologies and
the applied
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constitutes the
refereed
proceedings of
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of optical
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well as their
adoption in
support of a wide
variety of new

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services and applications. This involves the most recent trends in networking including 5G and beyond, big data and network data analytics, cloud/edge computing, autonomic

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networking,
artificial
intelligence
assisted
networks, secure
and resilient
networks, that
drive the need for
increased
capacity,
efficiency,
exibility and

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adaptability in the functions that the network can perform. In this context new disaggregated optical network architectures were discussed, exploiting and integrating novel multidimensional

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photonic
technology
solutions as well
as adopting open
hardware and
software
platforms relying
on software
defined
networking
(SDN), and
network function

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virtualization
(NFV) to allow
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and
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book provides a
detailed overview
of the evolution
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systems, with
emphasis on the
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breakthroughs of
optical
submarine cable
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based upon
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amplification,
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electronics. The
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systems in the
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field and conveys
the dimension of
the large
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projects. In
addition, the
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the myths
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that domain,
which have
remained known
so far to only
very few
specialists.

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were carefully

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semantic web,
coding techniques,
modeling and
simulation of

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fibers, and WDM networks. Later, he led research on WDM components (EDFAs, AWGs and fiber Fabry-Perot Filters), and on WDM local and wide area networks. He is a member of the National Academy of

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