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Optical science and engineering affect almost every aspect of our lives. Millions of miles of optical fiber carry voice and data signals around the world. Lasers

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are used in surgery of the retina, kidneys, and heart. New high-efficiency light sources promise dramatic reductions in electricity consumption. Night-vision equipment and satellite surveillance are changing how wars

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are fought. Industry uses optical methods in everything from the production of computer chips to the construction of tunnels. Harnessing Light surveys this multitude of applications, as well as the status of the optics industry and

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of research and education in optics, and identifies actions that could enhance the field's contributions to society and facilitate its continued technical development. This book addresses the salient question of

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how to make
mergers and
acquisitions work
using a five-step
approach. It
explores insights
gained from
Prysmian's
acquisitions and
other prominent
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existing best

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practices.

A discussion of the theories, operating characteristics, and current technology of main fiber laser and amplifier devices based on rare-earth-doped silica and fluoro-zirconate fibers. It describes the principles,

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designs, and properties of the erbium-doped fiber amplifier and its role as the cornerstone component in optical communication systems. This second edition contains new and revised material reflecting major

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developments in
academia and
industry.

This book is a
printed edition of the
Special Issue
Hollow core optical
fibers that was
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Power Cable
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cables--from
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principles,
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**contractors,
supply
authorities and
cable
manufacturers.
Neoclassical
economics, in
particular the
orthodox theory
of the firm,
offers little
insight into the
question of**

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***strategy. It
contributes
even less to the
understanding
of the strategic
management of
technological
change. In this
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disciplines
explore the
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***examines the
contributions
from his own
discipline,
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sociology,
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and systems
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illustrates the
underlying
trends and
relationships of***

***U.S. issued
patents of the
subject
company. The
analysis
employs two
frequently used
patent
classification
methods: US
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Classification
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***International
Patent
Classification
(IPC). Aside
from assisting
patent
examiners in
determining the
field of search
for newly
submitted
patent
applications,***

***the two
classification
methods play a
pivotal role in
the
characterization
and analysis
of technologies
contained in
collections of
patent data.
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also includes***

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most prolific
inventors, top
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area.***

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includes both
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**photonics and
lasers. The
book provides
new methods,
technologies,
advanced
prototypes,
systems, tools
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photonic and
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sensors and
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and monitoring,
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lasers and fiber
lasers, and
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The book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM), which is organized by D. J. Sanghvi College of Engineering's Department of

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Electronics and Telecommunication Engineering. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems.

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Global energy network is an important platform to guarantee effective exploitation of global

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clean energy and ensure reliable energy supply for everybody. Global Energy Interconnection analyzes the current situation and challenges of global energy development, provides the strategic thinking, overall objective, basic pattern, construction method and

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safe, clean, highly efficient and sustainable development of global energy. The concept and development ideas concerning global energy interconnection in this book are based on the author's thinking of strategic issues about China's and the world's energy and

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development for many years, especially combined with successful practices of China's UHV development. This book is particularly suitable for researchers and graduated students engaged in energy sector, as well as energy economics

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researchers,
economists,
consultants, and
government energy
policy makers in
relevant fields. Based
on the author's many
years' experience in
developing Smart
Grid solutions within
national and
international projects.
Combines both solid
background

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information and cutting-edge technology progress, coupled with a useful and impressive list of references. The key energy problems which are challenging us nowadays are well stated and explained in this book, which facilitates a better understanding of the development of global

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energy

interconnection with
UHV AC/DC and
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technologies.

This dedicated
overview of optical
compressive imaging
addresses
implementation
aspects of the
revolutionary theory of
compressive sensing
(CS) in the field of

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optical imaging and sensing. It overviews the technological opportunities and challenges involved in optical design and implementation, from basic theory to optical architectures and systems for compressive imaging in various spectral regimes, spectral and hyperspectral

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and practical guidance. Delivers the first book on compressed sensing dealing with system development for a wide variety of optical imaging and sensing applications. Covers the fundamentals of CS theory, including noise and algorithms, as well as basic design approaches for

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Adrian Stern, PhD, is associate professor and head of the Electro-Optical Engineering Unit at Ben-Gurion University of the Negev, Israel. He is an elected Fellow of SPIE. This handbook is an authoritative,

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comprehensive
reference on optical
networks, the
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The book reviews the
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research trends
targeted towards
continued capacity
scaling and enhanced
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wants to get a concise
view of future trends.

Dangerous Goods
Optical Compressive
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Stimulated Raman
Scattering Microscopy
AS/NZS 4130:1997
Principles and
Applications, Second
Edition,

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The Encyclopedia of Modern Optics, Second Edition, provides a wide-ranging overview of the field, comprising authoritative reference articles for undergraduate and postgraduate students and those researching outside their area of expertise. Topics

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LED's and their use
in illumination, orbital
angular momentum,
quantum optics and
information,
metamaterials and
transformation optics,
high power fiber and
UV fiber lasers,
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recent developments*

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*in the field and
integrates concepts
from fundamental
physics with
applications for
manufacturing and
engineering/design
Provides a broad and
interdisciplinary
coverage of specialist
areas Ensures that the
material is
appropriate for new*

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working in a new sub-
field, as well as those
in industry*

*Thematically
arranged and
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references added to
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*A comprehensive
guide to cable
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*and products The
Global Cable Industry
presents a
comprehensive
overview of the most
recent developments
in automotive cables,
nuclear power station
cables, undersea
cables, coaxial cables,
optical wires,
medium- and high-
voltage cables. With*

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*contributions from
noted researchers and
developers in the field,
the book includes
information on
material developments
for polymers,
crosslinked elastomers
and flame retardant
non-halogen cable
compounds. The
contributors provide
information on*

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technologies to crosslink polymers, an overview of foam polymers, and field experiences of the new cable fire test within the Construction Product Regulation framework. In addition, this comprehensive resource contains the most relevant

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economic questions

related to the cable industry that highlights materials, market segments, and countries. This important book:

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*on the most recent
developments in the
field Covers the most
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cable types such as
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undersea, coaxial,
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high-voltage cables
Written for power
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and engineering*

*scientists in industry,
The Global Cable
Industry is an up-to-
date guide to the multi-
billion-dollar cable
enterprise.*

*Microwave photonics
continues to see rapid
growth. The
integration of optical
fiber and wireless
networks has become*

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a commercial reality

and is becoming increasingly pervasive. Such hybrid technology will lead to many innovative applications, including backhaul solutions for mobile networks and ultrabroadband wireless networks that can provide users with

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very high bandwidth services. Microwave Photonics, Second Edition systematically introduces important technologies and applications in this emerging field. It also reviews recent advances in micro- and millimeter-wavelength and terahertz-frequency

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systems. The book features contributions by leading international researchers, many of whom are pioneers in the field. They examine wave generation, measurement, detection, control, and propagation in detail, as well as the devices

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and components that
enable ultrawide-band
and ultrafast
transmission,
switching, and signal
processing. These
devices and
components include
optical-controlled
microwave devices,
optical transmitters,
receivers, switching
devices, detectors, and*

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modulators. The book explores the theory, techniques, and technologies that are fueling applications such as radio-over-fiber, injection-locked semiconductor lasers, and terahertz photonics.

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overcoming current

*limitations and on
potential*

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*Two new chapters, on
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advances in the field*

*New illustrations in
each chapter Fully
illustrated with more
than 300 figures and
tables, this book offers
a detailed, wide-
ranging overview of
the current state and
future directions of
this burgeoning
technology.*

The re-engineering of

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power transmission

systems is crucial to meeting the objectives of such regulators as the European Union.

In addition to its market,

organisational and regulatory aspects, this re-engineering will also involve technical issues dealing with the

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*progressive
integration of
innovative
transmission
technologies in the
daily operation of
transmission system
operators. In this
context, Advanced
Technologies for
Future Transmission
Grids provides an
overview of the most*

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promising

technologies, likely to be of help to planners of transmission grids in responding to the challenges of the future: security of supply; integration of renewable generation; and creation of integrated energy markets (using the European case as an

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example). These issues have increased importance because of administrative complication and the fragmentation of public opinion expressed on the build up of new infrastructure. For each technology discussed, the focus is on the technical-

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*economic perspective
rather than on purely
technological points
of view. A transmissio
n-system-operator-
targeted Technology
Roadmap is presented
for the integration of
promising innovative
power transmission
technologies within
power systems of the
mid-long term.*

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Although the primary focus of this text is in the sphere of the European energy market, the lessons learned can be generalized to the energy markets of other regions.

*Advanced
Technologies for
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*Making Mergers and
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Governance and
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This book provides a useful introduction to Morse Theory.

Coverage focuses on applications and includes topics such as Morse-Smale flows, min-max theory, moment maps and equivariant cohomology, and complex Morse

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theory.

Advanced Fiber
Access Networks
takes a holistic view of
broadband access
networks—from
architecture to
network technologies
and network
economies. The book
reviews pain points
and challenges that
broadband service

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providers face (such as network construction, fiber cable efficiency, transmission challenges, network scalability, etc.) and how these challenges are tackled by new fiber access transmission technologies, protocols and architecture innovations. Chapters

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cover fiber-to-the-home (FTTH) applications as well as fiber backhuls in other access networks such as 5G wireless and hybrid-fiber-coax (HFC) networks. In addition, it covers the network economy, challenges in fiber network construction and deployment, and

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more. Finally, the book examines scaling issues and bottlenecks in an end-to-end broadband network, from Internet backbones to inside customer homes, something rarely covered in books.

Provides the latest information on end-to-end broadband access

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networks, from
architecture to
network technologies
and network
economies

Theory of Dielectric
Optical Waveguides
In the fifth edition of
SubTel Forum's
Annual Industry
Report, the format has
been updated to
include more. We've

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attempted to make a more encompassing view of the submarine fiber industry available to you, our readers. For the first time, we have produced this report entirely in house with the assistance of STF Analytics, our recently spun out research and data analysis arm.

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Within this issue, you will find the analysis of data collected by the diligent analysts of SubTel Forum and STF Analytics, whose focus now includes system capacity analysis, as well as the actual productivity and outlook of current and planned systems and the companies that

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service them. In this report, we have identified \$5 billion in new projects that are being actively pursued by their developers. Of those, \$2 billion worth are executed contract-in-force, and \$1.5 billion of those new, contract-in-force systems are slated for 2017 alone.

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Initial Emergency

Response Guide

ICWiCOM 2019

Fiber Optics Weekly

Update June 11, 2010

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Research, Technology,

and Applications in

Mechanical Sensing

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collection brings together key papers which examine the motivations and interests of ownership groups, the processes of corporate decision making, and the consequences of particular governance arrangements for other corporate

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stakeholders. The careful selection of articles reflects the wide range of research methods used to study the complex inter-relationships involved. Part I considers the diversity of forms of corporate ownership.

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The following parts examine in detail the relationships between ownership structures and the various aspects of corporate governance. This insightful volume will be of interest to students, researchers and practitioners alike. 20 articles,

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dating from 1994 to
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This book offers a vision of the future of electricity supply systems and CIGRE ' s views on the know-how that will be needed to manage the transition toward them. A variety of factors are

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driving a transition of electricity supply systems to new supply models, in particular the increasing use of renewable sources, environmental factors and developments in ICT technologies. These factors suggest that there are two

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possible models for power network development, and that those models are not necessarily exclusive: 1. An increasing importance of large networks for bulk transmission capable of interconnecting load regions and large

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centralized renewable generation resources, including offshore and of providing more interconnections between the various countries and energy markets. 2. An emergence of clusters of small, largely self-contained

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networks, which include decentralized local generation, energy storage and active customer participation, intelligently managed so that they operate as active networks providing local active and reactive support.

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The electricity supply systems of the future will likely include a combination of the above two models, since additional bulk connections and active distribution networks are needed in order to reach ambitious environmental,

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economic and security-reliability targets. This concise yet comprehensive reference resource on technological developments for future electrical systems has been written and reviewed by experts and the Chairs of the sixteen

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Study Committees
that form the
Technical Council of
CIGRE.

Explaining how to
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strategy for
manufacturing
excellence, The 12
Principles of
Manufacturing

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Excellence: A
Leader ' s Guide to
Achieving and
Sustaining Excellence
provides a
comprehensive,
proven approach for
delivering world-class
performance while
also cultivating the
right culture through
leadership and

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mentoring. Tapping into four decades of leadership experience, 35 years of it in the manufacturing industry, Larry Fast explains how to achieve vertical and horizontal alignment across your organization. He

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details a clear pathway to excellence via the 12 Principles of Manufacturing Excellence and provides a method for tracking progress—plant by plant and function by function.

Emphasizing the importance of using

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Lean and Six Sigma tools to improve your business, the book: Integrates strategy and leadership development Paves a path for culture change – Operator-Led Process Control (OLPC)—that prepares hourly employees to take

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control of their
processes and
prepares
management to
enable them to do it
Details an audit
process for tracking
progress and ensuring
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Excellence Audit, a
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can all be easily
customized for the
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excellence, the
accompanying CD
supplies the tools you
and your team will
need to pursue it with
passion, confidence,
and urgency. Listen
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Principles of

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Manufacturing
Excellence. Part One
— Part Two
Power Cable
Technology provides
a precise
understanding of the
design, manufacture,
installation, and
testing of a range of
electric power
cables—from low-

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voltage, 1,000/1,100V
cables to extra-high-
voltage, 400kV
cables—with
reference to future
trends in the industry.
The authors '
mantra is: know your
cable. Thus, the book
begins with a
comprehensive
overview of power

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cable design and manufacturing through the ages, and then: Describes the characteristics of the materials currently used in the production of various power cables Explains how to calculate the die orifice for drawing wires, how

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tolerance in
manufacturing affects
material weight and
consumption, and
how and why
lubricants are used
Addresses the
formation, stranding,
and insulation of the
electrical conductors,
as well as the
sheathing,

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armouring, and
protective covering of
the power cables

Delivers an in-depth
discussion of quality
systems, quality
control, and

performance testing

Covers the many
nuances of cable
installation, including
laying, jointing, and

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terminating

Throughout, the authors emphasise consonance between design theory and practical application to ensure production of a quality power cable at a reasonable cost. They also underscore the importance of careful

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handling, making

Power Cable

Technology a must
read for power cable
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technicians alike.

Techniques and

Applications

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Submarine Power

Cables

Global Energy

Interconnection

Proceedings of the

6th International

Conference, OFS '89,

Paris, France,

September 18-20,

1989

**The demand for
high-**

**performance
submarine power
cables is
increasing as
more and more
offshore wind
parks are
installed, and
the national
electric grids are
interconnected.
Submarine
power cables are
installed for the**

highest voltages and power to transport electric energy under the sea between islands, countries and even continents. The installation and operation of submarine power cables is much different from land cables. Still,

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in most textbooks on electrical power systems, information on submarine cables is scarce. This book is closing the gap.

Different species of submarine power cables and their application are explained.

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cables. A

**comprehensive
reference list is
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**The book gives
an in-depth
description of
the key devices
of current and
next generation
fibre optic
communication**

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networks. In particular, the book covers devices such as semiconductor lasers, optical amplifiers, modulators, wavelength filters, and detectors but the relevant properties of optical fibres as

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Principles

well. The presentations include the physical principles underlying the various devices, the technologies used for the realization of the different devices, typical performance characteristics

**and limitations,
and development
trends towards
more advanced
components are
also illustrated.
Thus the scope
of the book
spans relevant
principles, state-
of-the-art
implementations,
the status of
current research**

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**and expected
future
components.
Stimulated
Raman
Scattering
Microscopy:
Techniques and
Applications
describes
innovations in
instrumentation,
data science,
chemical probe**

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**development,
and various
applications
enabled by a
state-of-the-art
stimulated
Raman
scattering (SRS)
microscope.
Beginning by
introducing the
history of SRS,
this book is
composed of**

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seven parts in depth including instrumentation strategies that have pushed the physical limits of SRS microscopy, vibrational probes (which increased the SRS imaging functionality), data science methods, and

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**recent efforts in
miniaturization.**

**This rapidly
growing field
needs a
comprehensive
resource that
brings together
the current
knowledge on
the topic, and
this book does
just that.**

Researchers who

need to know the requirements for all aspects of the instrumentation as well as the requirements of different imaging applications (such as different types of biological tissue) will benefit enormously from the examples of

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successful demonstrations of SRS imaging in the book. Led by Editor-in-Chief Ji-Xin Cheng, a pioneer in coherent Raman scattering microscopy, the editorial team has brought together various experts on each

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**aspect of SRS
imaging from
around the world
to provide an
authoritative
guide to this
increasingly
important
imaging
technique. This
book is a
comprehensive
reference for
researchers,**

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**faculty,
postdoctoral
researchers, and
engineers.
Includes every
aspect from
theoretic reviews
of SRS
spectroscopy to
innovations in
instrumentation
and current
applications of
SRS microscopy**

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**Provides copious
visual elements
that illustrate
key information,
such as SRS
images of
various
biological
samples and
instrument
diagrams and
schematics
Edited by leading
experts of SRS**

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**microscopy, with
each chapter
written by
experts in their
given topics
The book
examines the
theories of co-
petition and
follows this up
with empirically
based case
studies as well
as experimental**

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**evidence from
the laboratory
and will be of
interest to those
involved with
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Optical Science
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Sustaining
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*"To most people
the term 'value'
only relates to*

money. Value is much more than this and often occurs at three different levels - the individual, the organisation and the community. Creating sustainable value is the process of linking these

three levels. The 'glue' that holds them together comprises the creative mindset and the tools of innovation, and when linked they can create enduring sustainable value."--P. 4.

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***Opto-mechanical
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Sensors:
Research,
Technology, and
Applications in
Mechanical
Sensing offers
comprehensive
coverage of the
theoretical
aspects of fiber***

Page 135/150

optic sensors (FOS), along with current and emerging applications in the mechanical, petroleum, biomedical, biomechanical, aerospace and automotive industries.

Special attention is given to FOS applications in harsh environments. Due to recent technology advances, optical fibers have found uses in many industrial applications.

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***advantages,
including
immunity to
electromagnetic
interference, high
fidelity and signal-
to-noise ratio,
low-loss remote
sensing and
small size.***

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background***

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***information and
fundamentals on
fiber optic
sensors
technology
Covers a wide
variety of
established and
emerging
applications of
FOS Focuses on
mechanical***

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researchers and

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Patent
Landscape
Analysis –
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Optoelectronic
devices and fibre
optics are the
basis of cutting-
edge***

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communication systems. This monograph deals with the various components of these systems, including lasers, amplifiers, modulators, converters, filters, sensors, and more.

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***From Strategy
and Target
Selection to Post
Merger
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***Doped Fiber
Lasers and
Amplifiers,
Revised and
Expanded
Harnessing Light
Materials,
Markets,
Products***

A basic, unified
reference,
rather than a

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description of
the current
experimental
activity,
presenting the
scientific and
engineering
principles of
single-mode
optical fibers.
It does,
however, update
discussions to
reflect

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since the 1983
first edition,
particularly
those on
international
standards for
fibres and
measurement
procedures,
improvements in
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attenuation
control, fibre

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gyrometry, high-
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fibres,
dispersion
shifted and
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flattened
fibres,
connectors and
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equipment, long
distance
terrestrial and
undersea

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communication
systems, and
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