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And Photonics Solutions Kasap

*Optoelectronics And
Photonics Solutions
Kasap*

Benson Tongue takes a
refreshingly informal approach to

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the understanding and analysis of vibrations. He strikes the right balance between detail and accessibility, offering in-depth analysis and a friendly writing style. Beginning with classical subjects, e.g., single degree of

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freedom systems, the text moves into more modern material, emphasizing multiple degree of freedom systems. Numerous problems challenge students to think and analyze outcomes of various techniques employed.

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Additional modal analysis and linear algebra are incorporated to solve problems, utilizing but not requiring MATLAB. Another innovative feature of the text is a chapter devoted to "Seat of the Pants Engineering", which brings

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together some of the common approaches engineers use to get a quick answer or to verify an analysis. At the same time, he applies them to all the systems that have been discussed in earlier chapters. Principles of Vibration is

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an ideal text for upper-level undergraduate and graduate students in mechanical, civil, and aeronautical engineering departments.

Photonic devices lie at the heart of the communications revolution,

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and have become a large and important part of the electronic engineering field, so much so that many colleges now treat this as a subject in its own right. With this in mind, the author has put together a unique textbook

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covering every major photonic device, and striking a careful balance between theoretical and practical concepts. The book assumes a basic knowledge of optics, semiconductors and electromagnetic waves. Many of

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the key background concepts are reviewed in the first chapter.

Devices covered include optical fibers, couplers, electro-optic devices, magneto-optic devices, lasers and photodetectors.

Problems are included at the end

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of each chapter and a solutions set is available. The book is ideal for senior undergraduate and graduate courses, but being device driven it is also an excellent engineers' reference.

This book introduces readers to a

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wide range of applications for elements in Group 16 of the periodic table, such as, optical fibers for communication and sensing, X-ray imaging, electrochemical sensors, data storage devices, biomedical

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applications, photovoltaics and IR detectors, the rationale for these uses, the future scope of their applications, and expected improvements to existing technologies. Following an introductory section, the book is

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broadly divided into three parts—dealing with Sulfur, Selenium, and Tellurium. The sections cover the basic structure of the elements and their compounds in bulk and nanostructured forms; properties

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that make these useful for various applications, followed by applications and commercial products. As the global technology revolution necessitates the search for new materials and more efficient devices in the electronics

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and semiconductor industry,
Applications of Chalcogenides: S,
Se, and Te is an ideal book for a
wide range of readers in industry,
government and academic
research facilities looking beyond
silicon for materials used in the

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electronic and optoelectronic industry as well as biomedical applications.

This updated, second edition textbook provides a thorough and accessible treatment of semiconductor lasers from a

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design and engineering perspective. It includes both the physics of devices as well as the engineering, designing and testing of practical lasers. The material is presented clearly with many examples provided. Readers of the

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book will come to understand the finer aspects of the theory, design, fabrication and test of these devices and have an excellent background for further study of optoelectronics.

Schaum's Outline of Complex

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Variables, 2ed

Principles and Practices

An Introduction with MATLAB

Fundamentals of Solid State

Engineering

Introduction to Semiconductor

Lasers for Optical Communications

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"This book is structured in seven chapters. Chapter 1 discusses glass science and structures of inorganic glasses, which are commonly used for

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photonic devices,
including oxide,
fluoride, chalcogenide
and mixed anion glasses.
Chapter 2 covers the
important thermal,
viscosity and physical

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properties of glasses
which, by nucleation and
crystal growth processes
can be engineered for
photonic device
applications. In Chapter
3, bulk glass

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fabrication using
melting and casting and
sol-gel techniques are
discussed along with the
fabrication principles
of glass-ceramic
materials, sol-gel

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formation and sol-gel based glass fabrication. Chapter 4 introduces the standard geometrical optics for fibre optics, Maxwell's equation for modal analysis and its

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importance in fibre and waveguide optics. It concludes with a detailed discussion on refractive index and its dependence on compositions, density,

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temperature and stress. The relationship of these properties in controlling bulk optical properties is especially emphasized. The main emphasis of Chapter 5 is

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on the methods of thin film fabrication using physical and chemical vapour deposition and on pulsed laser deposition including ion implantation techniques.

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Chapter 6 starts with the classical radiative transition theory based on dipole models, and then explains the concept of dipoles and electron-phonon

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coupling. Emphasizing various quantum mechanical rules, it then discusses the radiative, non-radiative, energy transfer and

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upconversion processes.

Finally, chapter 7 covers the photonic device applications of inorganic glasses, fibres and waveguides and concludes with a

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short discussion on the
emerging opportunities
in future for inorganic
glasses"--

An introduction to
photonics and lasers
that does not rely

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oncomplex mathematics
This book evolved from a
series of courses
developed by the
authorand taught in the
areas of lasers and
photonics. This thorough

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lyclassroom-tested work
fills a unique need for
students,instructors,
and industry
professionals in search
of anintroductory-level
book that covers a wide

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range of topics in these areas. Comparable books tend to be aimed either too high or too low, or they cover only a portion of the topics that are needed

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for a comprehensive
treatment. Photonics and
Lasers is divided into
four parts: *

- Propagation of Light *
- Generation and Detection
of Light *
- Laser Light *

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Light-Based

Communication The author has ensured that complex mathematics does not become an obstacle to understanding key physical concepts.

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Physical arguments and explanations are clearly set forth while, at the same time, sufficient mathematical detail is provided for a quantitative understanding. As an

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additional aid to
readers who are learning
to think symbolically,
some equations are
expressed in words as
well as symbols. Problem
sets are provided

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throughout the book for readers to test their knowledge and grasp of key concepts. A solutions manual is also available for instructors. Finally,

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the detailed
bibliography leads
readers to in-depth
explorations of
particular topics. The
book's topics, lasers
and photonics, are often

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treated separately in other texts; however, the author skillfully demonstrates their natural synergy. Because of the combined coverage, this

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text can be used for a two-semester course or a one-semester course emphasizing either lasers or photonics.

This is a perfect introductory textbook

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for both undergraduate
and graduate students,
additionally serving as
a practical reference
for engineers in
telecommunications,
optics, and laser

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electronics.

This carefully revised
third edition on the
electrical, optical,
magnetic, and thermal
properties of materials
stresses concepts rather

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than mathematical formalism. Many examples from engineering practice provide an understanding of common devices and methods.

Handbook of

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Optoelectronics offers a self-contained reference from the basic science and light sources to devices and modern applications across the entire spectrum of

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disciplines utilizing
optoelectronic
technologies. This
second edition gives a
complete update of the
original work with a
focus on systems and

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applications. Volume I covers the details of optoelectronic devices and techniques including semiconductor lasers, optical detectors and receivers, optical fiber

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devices, modulators,
amplifiers, integrated
optics, LEDs, and
engineered optical
materials with brand new
chapters on silicon
photonics,

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nanophotonics, and
graphene
optoelectronics. Volume
II addresses the
underlying system
technologies enabling
state-of-the-art

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communications, imaging, displays, sensing, data processing, energy conversion, and actuation. Volume III is brand new to this edition, focusing on

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applications in
infrastructure,
transport, security,
surveillance,
environmental
monitoring, military,
industrial, oil and gas,

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energy generation and distribution, medicine, and free space. No other resource in the field comes close to its breadth and depth, with contributions from

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leading industrial and
academic institutions
around the world.

Whether used as a
reference, research
tool, or broad-based
introduction to the

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field, the Handbook offers everything you need to get started.

John P. Dakin, PhD, is professor (emeritus) at the Optoelectronics Research Centre,

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University of
Southampton, UK. Robert
G. W. Brown, PhD, is
chief executive officer
of the American
Institute of Physics and
an adjunct full

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professor in the Beckman
Laser Institute and
Medical Clinic at the
University of
California, Irvine.
Fundamentals,
Engineering, and

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Applications
Cambridge Illustrated
Handbook of
Optoelectronics and
Photonics
Essentials of
Organizational Behavior

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Fabrication,
Implementation, and
Applications
Optical Interferometry,
2e

**Technology of Quantum Devices
offers a multi-disciplinary overview**

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of solid state physics, photonics and semiconductor growth and fabrication. Readers will find up-to-date coverage of compound semiconductors, crystal growth techniques, silicon and compound semiconductor device technology, in

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addition to intersubband and semiconductor lasers. Recent findings in quantum tunneling transport, quantum well intersubband photodetectors (QWIP) and quantum dot photodetectors (QWDIP) are

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described, along with a thorough set of sample problems.

This book introduces the state-of-the-art technologies in mechatronics, robotics, and MEMS devices in order to improve their methodologies. It provides a follow-

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up to "Advanced Mechatronics and MEMS Devices" (2013) with an exploration of the most up-to-date technologies and their applications, shown through examples that give readers insights and lessons learned from actual projects. Researchers on

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**mechatronics, robotics, and MEMS
as well as graduate students in
mechanical engineering will find
chapters on: Fundamental design
and working principles on MEMS
accelerometers Innovative mobile
technologies Force/tactile sensors**

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**development Control schemes for
reconfigurable robotic systems
Inertial microfluidics Piezoelectric
force sensors and dynamic
calibration techniques ...And more.
Authors explore applications in the
areas of agriculture, biomedicine,**

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advanced manufacturing, and space. Micro-assembly for current and future industries is also considered, as well as the design and development of micro and intelligent manufacturing. The second, updated edition of this

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**essential reference book provides a
wealth of detail on a wide range of
electronic and photonic materials,
starting from fundamentals and
building up to advanced topics and
applications. Its extensive coverage,
with clear illustrations and**

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applications, carefully selected chapter sequencing and logical flow, makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in

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corporate laboratories. The Springer Handbook of Electronic and Photonic Materials, second edition, includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations, and, most

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importantly, properties of various materials, as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel

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**materials and selected applications.
This handbook is a valuable resource
for graduate students, researchers
and practicing professionals working
in the area of electronic,
optoelectronic and photonic
materials.**

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New, significant scientific discoveries in laser and photonic technologies, systems perspectives, and integrated design approaches can improve even further the impact in critical areas of challenge. Yet this knowledge is dispersed across

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**several disciplines and research
arenas. Laser and Photonic Systems:
Design and Integration brings
together a multidisciplinary group of
experts to increase understanding of
the ways in which systems
perspectives may influence laser and**

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photonic innovations and application integration. By bringing together chapters from leading scientists and technologists, industrial and systems engineers, and managers, the book stimulates new thinking that would bring a systems, network, and system-

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**of-systems perspective to bear on
laser and photonic systems
applications. The chapters challenge
you to explore opportunities for
revolutionary and broader
advancements. The authors
emphasize the identification of**

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emerging research and application frontiers where there are promising contributions to lasers, optics, and photonics applications in fields such as manufacturing, healthcare, security, and communications. The book contains insights from leading

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**researchers, inventors,
implementers, and innovators. It
explains a variety of techniques,
models, and technologies proven to
work with laser and photonic
systems, their development, design,
and integration. Such systems are of**

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growing interest to many organizations, given their promise and potential solutions of grand societal challenges. Lastly, the book helps you leverage the knowledge into exciting new frontiers of successful solutions.

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Electronic Properties of Materials
Optoelectronics and Photonics
Principles of Scattering and
Transport of Light
An Introduction
Microfluidics and Nanofluidics
Handbook

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***Provides a multidisciplinary
introduction to quantum
mechanics, solid state physics,
advanced devices, and
fabrication Covers wide range of
topics in the same style and in
the same notation Most up to
date developments in***

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***semiconductor physics and nano-
engineering Mathematical
derivations are carried through in
detail with emphasis on clarity
Timely application areas such as
biophotonics , bioelectronics
This introductory book assumes
minimal knowledge of the***

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existence of integrated circuits and of the terminal behavior of electronic components such as resistors, diodes, and MOS and bipolar transistors. It presents to readers the basic information necessary for more advanced processing and design books.

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Focuses mainly on the basic processes used in fabrication, including lithography, oxidation, diffusion, ion implementation, and thin film deposition. Covers interconnection technology, packaging, and yield. Appropriate for readers

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***interested in the area of
fabrication of solid state devices
and integrated circuits.***

***A comprehensive manual on the
efficient modeling and analysis of
photonic devices through
building numerical codes, this
book provides graduate students***

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and researchers with the theoretical background and MATLAB programs necessary for them to start their own numerical experiments. Beginning by summarizing topics in optics and electromagnetism, the book discusses optical planar

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***waveguides, linear optical fiber,
the propagation of linear pulses,
laser diodes, optical amplifiers,
optical receivers, finite-
difference time-domain method,
beam propagation method and
some wavelength division
devices, solitons, solar cells and***

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metamaterials. Assuming only a basic knowledge of physics and numerical methods, the book is ideal for engineers, physicists and practising scientists. It concentrates on the operating principles of optical devices, as well as the models and numerical

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methods used to describe them. Principles of Electronic Materials and Devices, Third Edition, is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices, Second Edition. It is designed for a first course on

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***electronic materials given in
Materials Science and
Engineering, Electrical
Engineering, and Physics and
Engineering Physics Departments
at the undergraduate level. The
third edition has numerous
revisions that include more***

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beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original

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semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across

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international borders. Advanced topics have been collected under Additional Topics, which are not necessary in a short introductory treatment.

Photonics and Lasers

Photonic Devices

Introduction to Microelectronic

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Fabrication

Laser and Photonic Systems

An Evidence-Based Approach

Holistic management considers humans, their economies, and the environment as inseparable. At the heart of the approach lies a

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simple testing process that enables people to make decisions that simultaneously consider economic, social and environmental realities, both short- and long-term. A useful handbook for anyone involved

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with land management and stewardship.

Reflecting changes in the field in the ten years since the publication of the first edition, *The Handbook of Photonics, Second Edition* explores recent advances that

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have affected this technology. In this new, updated second edition editor Mool Gupta is joined by John Ballato, strengthening the handbook with their combined knowledge and the continued contributions of world-class

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researchers. New in the Second Edition: Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers, and polymeric

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optical materials The book covers photonics materials, devices, and systems, respectively. An introductory chapter, new to this edition, provides an overview of photonics technology, innovation, and economic development.

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Resting firmly on the foundation set by the first edition, this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field, making it the reference of

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first resort.

Concise, practical, and based on the best available research, Essentials of Organizational Behavior: An Evidence-Based Approach, Second Edition equips students with the necessary skills

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to become effective leaders and managers. Author Terri A. Scandura uses an evidence-based approach to introduce students to new models proven to enhance the well-being, motivation, and productivity of people in the work

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place. Experiential exercises, self-assessments, and a variety of real-world cases and examples provide students with ample opportunity to apply OB concepts and hone their critical thinking abilities.

New to this Edition A new

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Emotions and Moods chapter delves into important topics like emotional intelligence, emotional contagion, and affective neuroscience. A new Power and Politics chapter unpacks the most effective influence strategies and

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helps students develop their political skills. A streamlined table of contents now combines perception and decision making in a single chapter and change and stress in a single chapter. New case studies, including some from

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SAGE Business Cases for the Interactive eBook, on topics such as virtual teams, equal pay and the gender wage gap, and the use of apps at work introduce timely and relevant discussions to help foster student engagement. The

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new edition has been rigorously updated with the latest research throughout and includes expanded coverage of Machiavellian leadership, ethical decision making, and organizational design through change. New Best

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Practices and Research in Action
boxes as well as new Toolkit
Activities and Self-Assessments
have been added to make the text
even more hands-on and practical.
When the first edition of Optical
Interferometry was published,

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interferometry was regarded as a rather esoteric method of making measurements, largely confined to the laboratory. Today, however, besides its use in several fields of research, it has applications in fields as diverse as measurement

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of length and velocity, sensors for rotation, acceleration, vibration and electrical and magnetic fields, as well as in microscopy and nanotechnology. Most topics are discussed first at a level accessible to anyone with a basic

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knowledge of physical optics, then a more detailed treatment of the topic is undertaken, and finally each topic is supplemented by a reference list of more than 1000 selected original publications in total. Historical development of

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interferometry The laser as a light
source Two-beam interference
Techniques for frequency
stabilization Coherence Electronic
phase measurements Multiple-
beam interference Quantum
effects in optical interference

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Extensive coverage of the applications of interferometry, such as measurements of length, optical testing, interference microscopy, interference spectroscopy, Fourier-transform spectroscopy, interferometric

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sensors, nonlinear
interferometers, stellar
interferometry, and studies of
space-time and gravitation
A Practice Oriented Approach
Applications of Chalcogenides: S,
Se, and Te

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The Mathematical Analysis of
Electrical and Optical Wave-
motion on the Basis of Maxwell's
Equations

Technology of Quantum Devices
Springer Handbook of Electronic
and Photonic Materials

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This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This book is a

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comprehensive, stand alone
reference for structural
steel design. Giving the
audience a thorough
introduction to steel
structures, this book
contains all of the need

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to know information on
practical design
considerations in the
design of steel buildings.
It includes complete
coverage of design
methods, load

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combinations, gravity loads, lateral loads and systems in steel buildings, and much more. The guide that helps students study faster, learn better, and get top

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grades More than 40
million students have
trusted Schaum's to help
them study faster, learn
better, and get top
grades. Now Schaum's is
better than ever—with a

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new look, a new format
with hundreds of practice
problems, and completely
updated information to
conform to the latest
developments in every
field of study. Fully

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compatible with your
classroom text, Schaum's
highlights all the
important facts you need
to know. Use Schaum's to
shorten your study time-
and get your best test

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scores! Schaum's Outlines-
Problem Solved.

This book, "Multilayer
Thin Films-Versatile
Applications for Materials
Engineering", includes
thirteen chapters related

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to the preparations,
characterizations, and
applications in the modern
research of materials
engineering. The
evaluation of
nanomaterials in the form

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of different shapes,
sizes, and volumes needed
for utilization in
different kinds of gadgets
and devices. Since the
recently developed two-
dimensional carbon

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materials are proving to be immensely important for new configurations in the miniature scale in the modern technology, it is imperative to innovate various atomic and

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molecular arrangements for the modifications of structural properties. Of late, graphene and graphene-related derivatives have been proven as the most

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versatile two-dimensional nanomaterials with superb mechanical, electrical, electronic, optical, and magnetic properties. To understand the in-depth technology, an effort has

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been made to explain the basics of nano dimensional materials. The importance of nano particles in various aspects of nano technology is clearly indicated. There is more

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than one chapter describing the use of nanomaterials as sensors. In this volume, an effort has been made to clarify the use of such materials from non-conductor to

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highly conducting species.
It is expected that this
book will be useful to the
postgraduate and research
students as this is a
multidisciplinary subject.
From fundamental concepts

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to cutting-edge applications, this is the first encyclopaedic reference of important terms and effects in optoelectronics and photonics. It contains

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broad coverage of terms
and concepts from
materials to optical
devices and communications
systems. Self-contained
descriptions of common
tools and phenomena are

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provided for undergraduate and graduate students, scientists, engineers and technicians in industry and laboratories. The book strikes a balance between materials and devices

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related coverage and systems level terms, and captures key nomenclature used in the field.

Equations are used where necessary, and lengthy derivations are avoided.

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Over 600 clear and self-explanatory illustrations are used to help convey key concepts, and enable readers to quickly grasp important concepts.

An Applied Approach

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Applied Nanophotonics
Applied Optical
Electronics (Volume Three)
The Handbook of Photonics
An Introduction to Charge
Carriers

A systematic and

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accessible treatment of
light scattering and
transport in disordered
media from first
principles.

The Microfluidics and
Nanofluidics Handbook:

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Two-Volume Set

comprehensively captures
the cross-disciplinary
breadth of micro- and
nanofluidics, which
encompass the biological
sciences, chemistry,

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physics and engineering applications. To fill the knowledge gap between engineering and the basic sciences, the editors pulled together key individuals, w

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This book focuses on several areas of intense topical interest related to applied spectroscopy and the science of nanomaterials. The eleven chapters in the

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book cover the following
areas of interest
relating to applied
spectroscopy and
nanoscience: · Raman
spectroscopic
characterization,

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properties, and light
propagation are
included, and new and
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Photonics

This book provides a semi-quantitative approach to understanding and applications of charge carriers in inorganic

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and organic opto-
electronic and photonic
devices. Featuring
contributions by noted
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materials and photonics,

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this book describes the importance of charge carriers in the operation of optoelectronic and photonic devices of both inorganic and organic

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semiconductors. An Introduction to Charge Carriers starts with the concept of charge carriers and their involvement in a few inorganic and organic

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devices, like solar cells and organic light emitting diodes (OLEDs), including those based on thermally activated and delayed fluorescence (TADF). Then it

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discusses the applications of charge carriers in silicon p-n junction, nanomaterials, wurtzite phases of gallium, aluminium and indium nitride devices,

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ion conducting polymer electrolytes, rare-earth doped glasses, organic photodetectors, and several aspects of organic and perovskite solar cells. An

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Introduction to Charge
Carriers is an ideal
book for senior
undergraduate and
postgraduate students
and teaching and
research professionals

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in the field of solid-state physics, material science and engineering. This text succeeds in giving a practical introduction to the fundamentals, problems

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takes a fresh look at
the enormous
developments in electro-
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associated materials.
Structural Steel Design
Microfluidics and

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Nanofluidics Handbook,
Two Volume Set

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Solutions Manual for
Quanta, Matter and
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Multilayer Thin Films

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process. Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented. Features:

- Includes updated content/example exercises that conform to the current codes (ASCE 7, ANSI/AISC 360-16,

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