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The Sixth Edition of this classic work comprises the most comprehensive and current guide to infrared and Raman spectra of inorganic,

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organometallic, bioinorganic, and coordination compounds. From fundamental theories of vibrational spectroscopy to applications in a variety of compound types, this has been extensively updated. New topics include the theoretical calculations of vibrational frequencies (DFT method),

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chemical synthesis by matrix co-condensation reactions, time-resolved Raman spectroscopy, and more. This volume is a core reference for chemists and medical professionals working with infrared or Raman spectroscopies and an excellent textbook for graduate courses.

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This book is aimed at primary care providers who care for the pediatric age group (general pediatrician, the PCP working with pediatric patients, and family medicine providers) with the goal of covering the endocrine differential diagnosis of common signs and symptoms of possible endocrine

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disease as well as appropriate initial laboratory evaluation and interpretation. While multiple pediatric endocrine textbooks exist, most of them are heavy in coverage of physiology and rare diseases, with less discussion of practical steps in evaluation and diagnosis. This book

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distinguishes itself through a very practical approach. The first section is organized by presenting signs and symptoms, the second section is organized by laboratory interpretation, and the third section provides summaries of common pediatric endocrine disorders. Chapters are

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concise, providing critical clinical information including clinical pearls, common diagnoses and important points in patient counseling. Written by experts in the field, Endocrine Conditions in Pediatrics is a valuable resource that provides general pediatricians and other primary care

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providers with all of the information they need to provide superb patient care before transferring to a pediatric endocrinologist when necessary.

From development prototype to Geneva Motor Show star and 150mph road-test car, 9600 HP played a key role in the launch of the sensational

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Jaguar E-type.

"The authors have provided all the elements required for complete understanding of the basic concepts in heat recovery and water minimization in chemical and related processes, and followed these with carefully selected and developed problems and

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solutions in order to ensure that the concepts delivered can be applied." Simon Perry, The University of Manchester. This graduate textbook covers fundamentals of the key areas of Process Integration and Intensification for intra-process heat recovery (Heat Integration), inter-

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process heat recovery and cogeneration (Total Site) as well as water conservation. Step by step working sessions are illustrated for deeper understanding of the taught materials. The textbook also provides a wealth of pointers as well as further information for readers to acquire

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more extensive materials on the diverse industrial applications and the latest development trends in Process Integration and Intensification. It is addressed to graduate students as well as professionals to help the effectively application of Process Integration and Intensification in plant

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design and operation.

Process Integration and Intensification

Synthesis, Properties and Applications

Methods and Protocols

Industrial Plasma Engineering

The Outbreak Edition

Theranostics

Time-lapse (4D) seismic

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***technology is a key enabler
for improved hydrocarbon
recovery and more cost-
effective field operations.
Practical Applications of
Time-lapse Seismic Data
(SEG Distinguished***

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Instructor Series No. 16)
shows how 4D seismic data
are used for reservoir
surveillance, how they
provide valuable insight on
dynamic reservoir properties
such as fluid saturation,

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pressure, and temperature, and how they add value to reservoir management. The material, based on the 2013 SEG Distinguished Instructor Short Course, includes discussions of

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***reservoir-engineering
concepts and rock physics
critical to the understanding
of 4D data, along with topics
in 4D seismic acquisition
and processing. A primary
focus of the book is***

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interpretation and data integration. Case-study examples are used to demonstrate key concepts and are drawn on to demonstrate the range of interpretation methods

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currently employed by industry and the diversity of geologic settings and production scenarios in which 4D is making a difference. Time-lapse seismic interpretation is

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***inherently integrative,
drawing on geophysical,
geologic, and reservoir-
engineering data and
concepts. As a result, this
book should be of interest to
individuals from all***

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***subsurface disciplines.
A physics book that covers
the optical properties of
quantum-confined
semiconductor
nanostructures from both
the theoretical and***

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experimental points of view together with technological applications. Topics to be reviewed include quantum confinement effects in semiconductors, optical adsorption and emission

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properties of group IV, III-V, II-VI semiconductors, deep-etched and self assembled quantum dots, nanoclusters, and laser applications in optoelectronics.

Characterization Techniques

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***for Perovskite Solar Cell
Materials: Characterization
of Recently Emerged
Perovskite Solar Cell
Materials to Provide an
Understanding of the
Fundamental Physics on the***

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***Nano Scale and Optimize the
Operation of the Device
Towards Stable and Low-
Cost Photovoltaic
Technology explores the
characterization of
nanocrystals of the***

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perovskite film, related interfaces, and the overall impacts of these properties on device efficiency. Included is a collection of both main and research techniques for perovskite

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solar cells. For the first time, readers will have a complete reference of different characterization techniques, all housed in a work written by highly experienced experts. Explores various

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***characterization techniques
for perovskite solar cells and
discusses both their
strengths and weaknesses
Discusses material synthesis
and device fabrication of
perovskite solar cells***

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Includes a comparison throughout the work on how to distinguish one perovskite solar cell from another
Active geophysical monitoring is an important new method for studying

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time-evolving structures and states in the tectonically active Earth's lithosphere. It is based on repeated time-lapse observations and interpretation of rock-induced changes in

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***geophysical fields
periodically excited by
controlled sources. In this
book, the results of strategic
systematic development and
the application of new
technologies for active***

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geophysical monitoring are presented. The authors demonstrate that active monitoring may drastically change solid Earth geophysics, through the acquisition of substantially

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new information, based on high accuracy and real-time observations. Active monitoring also provides new means for disaster mitigation, in conjunction with substantial

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***international and
interdisciplinary
cooperation. Introduction of
a new concept Most
experienced authors in the
field Comprehensiveness
Volume 1: Principles***

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***Psychiatry as Cognitive
Neuroscience
2013 Distinguished
Instructor Short Course
Practical Applications of
Time-lapse Seismic Data
Perovskite Quantum Dots***

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To mark the 50th anniversary of the Jaguar E-Type, here is an all-new updated edition of a classic book. The E-type was, and still is, a uniquely charismatic and important British sports car, and this book is its ultimate tribute. Filled with new information, this book is a must-have for all E-type enthusiasts.

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This book reviews up-to-date ideas of how the luminescence radiation in semiconductors originates and how to analyze it experimentally. The book fills a gap between general textbooks on optical properties of solids and specialized monographs on luminescence. It is unique in its coherent treatment of the

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phenomenon of luminescence from the very introductory definitions, from light emission in bulk crystalline and amorphous materials to the advanced chapters that deal with semiconductor nano objects, including spectroscopy of individual nanocrystals. The theory of radiative recombination channels in

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semiconductors is considered on a level of intuitive physical understanding rather than rigorous quantum mechanical treatment. The book is based on teaching and written in the style of a graduate text with plenty of tutorial material, illustrations, and problem sets at chapter ends. It is designed predominantly for

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students in physics, optics, optoelectronics and materials science.

This book represents the fourteenth edition of the IMPORTANT leading reference work MAJOR COMPANIES OF ALL company entries have been entered in MAJOR THE ARAB WORL;L _ COMPANIES OF THE ARAB WORLD

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absolutely free This volume has been completely updated of charge, thus ensuring a total-y objective approach compared to last year's edition. Many new to the information given. companies have also been included. Whilst the publishers have made every effort to The publishers remain confident that MAJOR ensure that

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Chemistry

Hybrid Organic-Inorganic Perovskites
Characterization Techniques for

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Perovskite Solar Cell Materials
From Basic Principles to Applications
Impact of Materials on Society
This volume presents the 17th
International Conference on
Information Technology—New
Generations (ITNG), and

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chronicles an annual event on state of the art technologies for digital information and communications. The application of advanced information technology to such domains as astronomy, biology, education,

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geosciences, security, and healthcare are among the themes explored by the ITNG proceedings. Visionary ideas, theoretical and experimental results, as well as prototypes, designs, and tools that help

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information flow to end users are of special interest. Specific topics include Machine Learning, Robotics, High Performance Computing, and Innovative Methods of Computing. The conference features keynote

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speakers; a best student contribution award, poster award, and service award; a technical open panel, and workshops/exhibits from industry, government, and academia.

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This textbook supports the Impact of Materials on Society course and teaching materials, developed with the Materials Research Society. The textbook, which is freely available online (<https://ufl.pb.unizin.org/imos/>)

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and for purchase in print-on-demand format, offers an exploration into materials and the relationship with technologies and social structures. The textbook was developed by an interdisciplinary team from

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Engineering and Liberal Arts and Sciences, including anthropologists, sociologists, historians, media studies experts, Classicists, and more. Chapters include coverage of clay, ceramics, concrete, copper

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and bronze, gold and silver, steel, aluminum, polymers, and writing materials. Supplemental materials, including lecture slides, assignments, and exams, may be accessed in a companion volume: <https://ufl.pb>

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[.unizin.org/imosinstructorguide](http://unizin.org/imosinstructorguide)

This book summarizes the chemical variability and structural diversity of all known hybrid organic-inorganic perovskites subclasses including halides, azides, formates, dicyanamides,

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cyanides and dicyanometallates. It also presents a comprehensive account of their intriguing physical properties, including photovoltaic and optoelectronic properties, dielectricity, magnetism, ferroelectricity,

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ferroelasticity and multiferroicity. Moreover, the current challenges and future opportunities in this exciting field have also been discussed. Such a timely book will definitely show the readers a complete landscape of hybrid

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organic-inorganic pervoskites
and associated
multifunctionalities.

Everyone starting work in this
field is faced with the lack of
basic books. Here, two
renowned researchers introduce

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the reader to luminescence and its applications, describing the principles of the luminescence processes in a clear way and dealing not only with physics, but also with the chemistry of systems. Particular attention is

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paid to materials such as lamp phosphors, cathode-ray and X-ray phosphors, scintillators and many other applications.

The Business Year: Abu Dhabi
2020

Nonlinear Photonics

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Oral and Oropharyngeal Cancer
Major Companies of the Arab
World 1990/91

Luminescence Spectroscopy of
Semiconductors

Jaguar E-Type

This book will provide the

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necessary theoretical background and a description of plasma-related devices and processes that are used industrially for physicists and engineers. It is a self-contained introduction to the principles of plasma

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engineering with comprehensive references. This volume also includes the terminology, jargon and acronyms used in the field of industrial plasma engineering - indexed when they first appear in the

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text - along with their definitions and a discussion of their meaning. It is aimed at assisting the student in learning key terminology and concepts, and providing the in-service engineer or scientist with a

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technical glossary. An extensive index and appendices enhance the value of this book as a key reference source. These incorporate a list of the nomenclature used in mathematical expressions in

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the text, physical constants, and often-used plasma formulae. SI units are used throughout. Intended for students from all engineering and physical science disciplines, and as a reference source by in-

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*service engineers. Coverage:
* basic information on
plasma physics and the
physical processes important
in industrial plasmas *
sources of ion and electron
beams and ionizing radiation
used in industrial*

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*applications * physics and technology of DC and RF electrical discharges. This book represents the twelfth edition of the IMPORTANT leading reference work MAJOR COMPANIES OF All company entries have been*

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*entered in MAJOR THE ARAB
WORLD. COMPANIES OF THE ARAB
WORLD absolutely free This
volume has been completely
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approach compared to last
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the Definition of a major company world.

'Psychiatry as Cognitive Neuroscience' is a philosophical analysis of the study of psychopathology, considering how cognitive neuroscience has been

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applied in psychiatry. The text examines many neuroscientific methods, such as neuroimaging, and a variety of psychiatric disorders, including depression, and schizophrenia.

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This book addresses perovskite quantum dots, discussing their unique properties, synthesis, and applications in nanoscale optoelectronic and photonic devices, as well as the challenges and possible

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solutions in the context of device design and the prospects for commercial applications. It particularly focuses on the luminescent properties, which differ from those of the corresponding quantum

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dots materials, such as multicolor emission, fluorescence narrowing, and tunable and switchable emissions from doped nanostructures. The book first describes the characterization and

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fabrication of perovskite quantum dots. It also provides detailed methods for analyzing the electrical and optical properties, and demonstrates promising applications of perovskite quantum dots. Furthermore,

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it presents a series of optoelectronic and photonic devices based on functional perovskite quantum dots, and explains the incorporation of perovskite quantum dots in semiconductor devices and their effect of the

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performance. It also explores the challenges related to optoelectronic devices, as well as possible strategies to promote their commercialization. As such, this book is a valuable resource for graduate

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students and researchers in the field of solid-state materials and electronics wanting to gain a better understanding of the characteristics of quantum dots, and the fundamental optoelectronic properties

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*and operation mechanisms of
the latest perovskite
quantum dot-based devices.
Surveying with Construction
Applications
The History of Qatari
Architecture from 1800 to
1950*

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*A Guide to Treatment and
Management*

*D&B Principal International
Businesses*

*Introduction to Nuclear
Reactions*

Solid State Ionics

The past decade has seen a

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remarkable growth in the extent and variety of experiments being done on nuclear reactions. The purpose of this book is to understand the results of the measurements gained in these experiments rather than to describe how they are made.

The first book that examines the

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geographical, historical, and functional aspects of architecture in Qatar.

Historically, in the old architecture of Qatar, the urban development of cities and villages was based on the creation of agglomerations of housing units.

These agglomerations were the essence of traditional Qatari

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architecture which can be defined as architecture of social values, derived from a combination of different factors such as religion, privacy, and the extended family. After the discovery of oil, Qatar became a wealthy country and saw the introduction of a new modern language which did not reflect

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the vernacular architecture.

Volume 48 in the Semiconductors and Semimetals series discusses the physics and chemistry of electronic materials, a subject of growing practical importance in the semiconductor devices industry. The contributors discuss the current state

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of knowledge and provide insight into future developments of this important field.

SURVEYING: PRINCIPLES & APPLICATIONS, 9/e is the clearest, easiest to understand, and most useful introduction to surveying as it is practiced today. It brings together

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expert coverage of surveying principles, remote sensing and other new advances in technological instrumentation, and modern applications for everything from mapping to engineering. Designed for maximum simplicity, it also covers sophisticated topics typically

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discussed in advanced surveying courses. This edition has been reorganized and streamlined to align tightly with current surveying practice, and to teach more rapidly and efficiently. It adds broader and more valuable coverage of aerial, space and ground imaging, GIS, land surveying,

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and other key topics. An extensive set of appendices makes it a useful reference for students entering the workplace.

17th International Conference on Information Technology – New Generations (ITNG 2020)

Endocrine Conditions in Pediatrics

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Quantum Dot Optoelectronic Devices
A Clinical Compendium
Philosophical Perspectives
Active Geophysical Monitoring
Single crystals of over 100 different electronically active materials have been synthesized using a variety of methods, including growth by flame-

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fusion, flux, melt, gel diffusion, low-temperature solution, vapor, as well as synthesis by ultra-high-pressure techniques. These crystals, including a large number of doped specimens, emphasize oxides, garnets, silicates, ferrites, fluorides, as well as a large variety of other electromagnetic

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materials. Charts are presented giving summary data on single crystals grown, percentage and kind of dopants, growth methods and apparatus, crystal dimensions and other physical characteristics, primary research interest or use, crystal system, class, space group, and

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pertinent references. Several of the growth methods and recent Laboratory accomplishments are described.

(Author).

As Ecuador and the world at large grapple with the emerging challenge of the COVID-19 pandemic, it is important not to forget the

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fundamentals of the Ecuadorian economy and the success stories of 2019 and the start of 2020. We believe contained within these pages is an accurate, balanced account of the state of the Ecuadorian economy as of publication, told through the words of the dozens of top public- and private-

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sector figures. The Business Year's country-specific publications, sometimes featuring over 150 face-to-face interviews, are among the most comprehensive annual economic publications available internationally. This 212-page publication covers green economy, finance,

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state-of-the-art coverage and clear, concise approach, Surveying with Construction Applications, Seventh Edition covers the latest advances and foundational principles of surveying. Emphasizing instrumentation technology, field data capture, and data-processing techniques, this text

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highlights real-world applications of surveying to the construction and engineering fields. Ideal as a reference in the field, additional complexities in electronic distance measurement and the order of presentation of surveying topics have been revised in this edition. All state Departments of

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Transportation (DOTs) in the U.S. and the provincial Transportation/Highways Departments in Canada conduct extensive training sessions for their large staffs. This book covers topics that are taught in these training sessions, in addition to all of the introductory topics needed for survey

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training.

Arthropod-borne viruses affect billions of people around the world and comprise a significant proportion of emerging human pathogens. This Special Issue provides a global perspective on emerging arboviruses in endemic regions, as well as areas of

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introduction. Articles span entomological, clinical, and epidemiological aspects of West Nile virus, Rift Valley fever virus, Japanese encephalitis virus, Zika virus, chikungunya virus, Crimean Congo hemorrhagic fever virus, tick-borne encephalitis virus, and Venezuelan

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equine encephalitis virus.

A Practical Guide

Major Companies of the Arab World

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The Meaning of Shit

The Growth of Single Crystals

Principles and Applications

Luminescent Materials

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***Preceded by Oral cancer /
edited by Jatin P. Shah,
Newell W. Johnson, John
G. Batsakis. 2003.***

***A comical collection of
altered quotes and
sayings, ideal for anyone***

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***who can see that the world's going to shit
What is the meaning of shit? Philosophers and fools all around the world have searched for the answer to this question,***

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***and now the world's
extensive shit wisdom
has been collected in this
informative and
meaningful collection.
From doctors—take two
shits and call me in the***

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***morning—to waiters—you
want fries with that
shit?—whether you're a
Darwinist—it's survival of
the shittest—or
Catholic—if shit happens
we deserve it—there's***

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***enough shit for everyone!
Hallucinations are a
troublesome and
distressing symptom for
countless patients who
suffer from psychiatric or
neurological conditions.***

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This book brings together the work of leading experts in this area, to provide a practical guide to the assessment, evaluation, and treatment of

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***hallucinations.
Nonlinear photonics is
the name given to the
use of nonlinear optical
devices for the
generation,
communication,***

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processing, or analysis of information. This book is a progress report on research into practical applications of such devices. At present, modulation, switching,

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routing, decision-making, and detection in photonic systems are all done with electronics and linear optoelectronic devices. However, this may soon change, as nonlinear

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***optical devices, e.g.
picosecond samplers and
switches, begin to
complement
optoelectronic devices.
The authors succinctly
summarize past***

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accomplishments in this field and point to hopes for the future, making this an ideal book for newcomers or seasoned researchers wanting to design and perfect

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***nonlinear optical devices
and to identify
applications in photonic
systems.***

Semiconductor

Nanocrystals

Infrared and Raman

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***Spectra of Inorganic and
Coordination Compounds,
Part A***

Hallucinations

A Scatalogicon

***9600 Hp: The Story of the
World's Oldest E-Type***

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Jaguar ***Arthropod-Borne Viruses***

This book offers a clinical guide that brings together a broad range of brief interventions and their applications in treating

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psychosis. It describes two core approaches that can narrow the current, substantial gap between the need for psychotherapeutic interventions for all individuals suffering from psychosis, and the limited

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mental health resources available. The first approach involves utilizing the standard therapeutic modalities in the context of routine clinical interactions after adapting them into brief and

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effective formats. To that end, the book brings in experts on various psychotherapeutic modalities, who discuss how their particular modality could be adapted to more effectively fit into the

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existing system of care delivery. The second approach, addressed in detail, is to extend the availability of these brief interventions by utilizing the circle of providers as well as the social circle of

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the clients so that these interventions can be provided in a coordinated and complementary manner by psychiatrists, psychologists, clinical social workers, case managers, peer support

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specialists and other providers on the one hand, and by family members, friends, social and religious institutions on the other.

This book captures cutting-edge research in

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semiconductor quantum dot devices, discussing preparation methods and properties, and providing a comprehensive overview of their optoelectronic applications. Quantum dots (QDs), with particle sizes

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in the nanometer range, have unique electronic and optical properties. They have the potential to open an avenue for next-generation optoelectronic methods and devices, such as lasers, biomarker assays,

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field effect transistors, LEDs, photodetectors, and solar concentrators. By bringing together leaders in the various application areas, this book is both a comprehensive introduction to different kinds of QDs

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with unique physical properties as well as their preparation routes, and a platform for knowledge sharing and dissemination of the latest advances in a novel area of nanotechnology.

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This book presents a comprehensive overview of state-of-the-art quantum dot photodetectors, including device fabrication technologies, optical engineering/manipulation strategies, and emerging

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photodetectors with building blocks of novel quantum dots (e.g. perovskite) as well as their hybrid structured (e.g. 0D/2D) materials. Semiconductor quantum dots have attracted much attention due to their

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unique quantum confinement effect, which allows for the facile tuning of optical properties that are promising for next-generation optoelectronic applications. Among these remarkable properties are

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large absorption coefficient, high photosensitivity, and tunable optical spectrum from ultraviolet/visible to infrared region, all of which are very attractive and favorable for

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photodetection applications. The book covers both fundamental and frontier research in order to stimulate readers' interests in developing novel ideas for semiconductor photodetectors at the center

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of future developments in materials science, nanofabrication technology and device commercialization. The book provides a knowledge sharing platform and can be used as a reference for researchers

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working in the fields of photonics, materials science, and nanodevices.

This book represents the seventeenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company

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entries have been entered in
MAJOR COMPANIES OF THE ARAB
WORLD absolutely free of
This volume has been
completely updated compared
to last charge, thus
ensuring a totally objective
approach to the year's

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