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It is the organization and presentation of the material, however, which make the peculiar appeal of the book. This is no mere compendium of results--the subject has been completely reworked and the proofs recast with the skill and elegance

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which come only from years of devotion.

--Bulletin of the American Mathematical Society The very clear and simple presentation gives the reader easy access to the more difficult parts of the theory.

--Jahrbuch uber die Fortschritte der Mathematik In 1937, the theory of matrices was seventy-five years old.

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However, many results had only recently evolved from special cases to true general theorems. With the publication of his Colloquium Lectures, Wedderburn provided one of the first great syntheses of the subject. Much of the material in the early chapters is now familiar from textbooks on linear algebra. Wedderburn

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discusses topics such as vectors, bases, adjoints, eigenvalues and the characteristic polynomials, up to and including the properties of Hermitian and orthogonal matrices. Later chapters bring in special results on commuting families of matrices, functions of matrices--including elements of the

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*differential and integral calculus
sometimes known as matrix analysis, and
transformations of bilinear forms. The
final chapter treats associative algebras,
culminating with the well-known
Wedderburn-Artin theorem that simple
algebras are necessarily isomorphic to
matrix algebras. Wedderburn ends with*

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an appendix of historical notes on the development of the theory of matrices, and a bibliography that emphasizes the history of the subject.

ILSI Human Nutrition Reviews provide an account of current thought in the field under review and point to problems and questions yet to be elucidated. They are

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intended to fill the gap between the textbook on the one hand and the specialist publication on the other. They are written by leading international authorities and are reviews for workers in the medical, nutritional and allied sciences rather than the expert. Dietary Starches and Sugar in Man presents the

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latest thinking of leading research scientists in a unique, multi-authored book. Leading European experts have collaborated to prepare a multi-disciplinary update on the subject. Each chapter was submitted to peer review by every other author, after which the commentaries were either incorporated

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into a revision of the original text or added at the end of the chapter. In many cases the group discussion raised new points, so that the final product truly represents a complete picture of international expertise. This book thus gives nutrition experts in the medical sciences and the food industry all current

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information on the latest research, and the critiques of this research, concerning these two groups of carbohydrates.

This two-volume set of LNAI 11838 and LNAI 11839 constitutes the refereed proceedings of the 8th CCF Conference on Natural Language Processing and Chinese Computing, NLPCC 2019, held

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in Dunhuang, China, in October 2019. The 85 full papers and 56 short papers presented were carefully reviewed and selected from 492 submissions. They are organized in the following topical sections: Conversational Bot/QA/IR; Knowledge graph/IE; Machine Learning for NLP; Machine Translation; NLP

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*Applications; NLP for Social Network;
NLP Fundamentals; Text Mining; Short
Papers; Explainable AI Workshop;
Student Workshop: Evaluation
Workshop.*

*Decision Analysis for Management
Judgment is unique in its breadth of
coverage of decision analysis methods. It*

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covers both the psychological problems that are associated with unaided managerial decision making and the decision analysis methods designed to overcome them. It is presented and explained in a clear, straightforward manner without using mathematical notation. This latest edition has been

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fully revised and updated and includes a number of changes to reflect the latest developments in the field.

A Quantitative Approach

Lectures on Matrices

BioMEMS and Biomedical

Nanotechnology

Plasma Scattering of Electromagnetic

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Radiation

Confocal Microscopy

*Oxygen Transfer from Atmosphere to
Tissues*

*A conformational transition of
the cellular prion protein
(PrPC) into an aberrantly*

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folded isoform designated scrapie prion protein (PrPSc) is the hallmark of a variety of neurodegenerative disorders collectively called prion diseases. They include Creutzfeldt-Jakob disease and

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Gerstmann-Stäussler-Scheinker syndrome in humans, scrapie in sheep, bovine spongiform encephalopathy (BSE) in cattle and chronic wasting disease (CWD) in free-ranging deer. In

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contrast to the deadly properties of misfolded PrP, PrPC seems to possess a neuroprotective activity. Moreover, animal models indicated that the stress-protective activity of PrPC and the

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neurotoxic effects of PrPSc are somehow interconnected. In this timely book, leading scientists in the field have come together to highlight the apparently incongruous activities of different PrP

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conformers. The articles outline current research on cellular pathways implicated in the formation and signaling of neurotoxic and physiological PrP isoforms and delineate future research direction.

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Topics covered include the physiological activity of PrPC and its possible role as a neurotrophic factor, the finding that aberrant PrP conformers can cause neurodegeneration in the

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absence of infectious prion propagation, the requirement of the GPI anchor of PrPC for the neurotoxic effects of scrapie prions, the pathways implicated in the formation and neurotoxic properties of

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cytosolically localized PrP, the impact of metal ions on the processing of PrP, and the role of autophagy in the propagation and clearance of PrPSc. The book is fully illustrated and chapters

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include comprehensive reference sections. Essential reading for scientists involved in prion research.

The objective of this book is to assist scientists and engineers select the ideal material or

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manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also

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presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The

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*sciences of metallic (primarily)
and organic materials
presented throughout the book
demonstrate how they can be
applied as an integral part of
spacecraft product assurance
schemes, which involve*

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quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems

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associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by

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astronauts and returned to Earth from long durations in space are examined. Information detailed in the Handbook is applicable to general terrestrial applications including consumer

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electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the

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*reliability of new materials
and processes for space
technology and space
engineering. It will be
invaluable to engineers
concerned with the
construction of advanced*

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structures or mechanical and electronic sub-systems.

The last several years have been a landmark period in the ubiquitin field. The breadth of ubiquitin's roles in cell biology was first sketched, and the

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importance of ubiquitin-dependent proteolysis as a regulatory mechanism gained general acceptance. The many strands of work that led to this new perception are re counted in this book. A consequence of

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this progress is that the field has grown dramatically since the first book on ubiquitin was published almost a decade ago [M. Rechsteiner (ed.), Ubiquitin, Plenum Press, 1988]. In this span, students of

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the cell cycle, transcription, signal transduction, protein sorting, neuropathology, cancer, virology, and immunology have attempted to chart the role of ubiquitin in their particular experimental

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systems, and this integration of the field into cell biology as a whole continues at a remarkable pace. We hope that for active researchers in the field as well as for newcomers and those on the

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fence, this book will prove helpful for its breadth, historical perspective, and practical tips. Structural data are now available on many of the components of the ubiquitin pathway. The

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structures have provided basic insights into the unusual biochemical mechanisms of ubiquitination and proteasome-mediated proteolysis. Because high-speed computer graphics can convey structures more

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effectively than print media, we have supplemented the figures of the book with a Worldwide Web site that can display the structures in a flexible, viewer-controlled format.

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This book focuses on the physics of laser plasma interactions and presents a complementary and very useful numerical model of plasmas. It describes the linear theory of light wave

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*propagation in plasmas,
including linear mode
conversion into plasma waves
and collisional damping.*

*Advances in Bioprocess
Engineering*

Common Problems in Acute

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*Care Surgery
Smart Objects and
Technologies for Social Good
Fundamentals of
Microfabrication and
Nanotechnology, Three-
Volume Set*

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*Emerging Arboviruses
for Spacecraft and High
Reliability Applications
In Confocal Microscopy Methods and
Protocols, Stephen Paddock and a
highly skilled panel of experts lead the
researcher using confocal techniques*

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from the bench top, through the imaging process, to the journal page. They concisely describe all the key stages of confocal imaging-from tissue sampling methods, through the staining process, to the manipulation, presentation, and publication of the

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realized image. Written in a user-friendly, nontechnical style, the methods specifically cover most of the commonly used model organisms: worms, sea urchins, flies, plants, yeast, frogs, and zebrafish. Centered in the many biological applications of the

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confocal microscope, the book makes possible the successful imaging of both fixed and living specimens using primarily the laser scanning confocal microscope. The powerful hands-on methods collected in Confocal Microscopy Methods and Protocols

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will help even the novice to produce first-class cover-quality confocal images.

Bioprocess engineering has played a key role in biotechnology, contributing towards bringing the exciting new discoveries of molecular and cellular

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biology into the applied sphere, and in maintaining established processes, some centuries-old, efficient and essential for today's industry. Novel developments and new application areas of biotechnology, along with increasing constraints in costs, product

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quality, regulatory and environmental considerations, have placed the biochemical engineer at the forefront of new challenges. This second volume of Advances in Bioprocess Engineering reflects precisely the multidisciplinary nature of the field,

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where new and traditional areas of application are nurtured by a better understanding of fundamental phenomena and by the utilization of novel techniques and methodologies. The chapters in this book were written by the invited speakers to the 2nd

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*International Symposium on
Bioprocess Engineering, Mazatlan,
Mexico, September 1997.*

*Highlighting recent developments as
well as future challenges, this book
covers a wealth of topics from
Stabilization of Emulsions to*

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*Nanocomposites to Sensory Properties
of Cosmetic Emulsions.*

*The subject of this volume is two-fold.
First, it gathers typical polarization
patterns occurring in nature. Second, it
surveys the polarization-sensitive ani
mals, the physiological mechanisms*

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and biological functions of polarization sensitivity as well as the polarization-guided behaviour in animals. The monograph is prepared for biologists, physicists and meteorologists, especially for experts of atmospheric optics and animal

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vision, who wish to understand and reveal the message hidden in polarization patterns of the optical environment not directly accessible to the human visual system, but measurable by polarimetry and perceived by many animals. Our volume is an

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attempt to build a bridge between these two physical and biological fields. In Part I we introduce the reader to the elements of imaging polarimetry. This technique can be efficiently used, e. g. in atmospheric optics, remote sensing and biology. In Part II we deal with

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typical polarization patterns of the natural optical environment.

Sunrise/sunset, clear skies, cloudy skies, moonshine and total solar eclipses all mean quite different illumination conditions, which also affect the spatial distribution and

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strength of celestial polarization. We present the polarization patterns of the sky and its unpolarized (neutral) points under sunlit, moonlit, clear, cloudy and eclipsed conditions as a function of solar elevation. The polarization pattern of a rainbow is

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also shown. That part of the spectrum is derived in which perception of skylight polarization is optimal under partly cloudy skies.

Methods and Protocols

Population Genomics: Marine Organisms

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*Handbook of Natural Gas
Transmission and Processing
The Physics Of Laser Plasma
Interactions*

*A Holistic Approach to Diagnosis and
Treatment*

Polarization Patterns in Nature

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The Multiphase Flow Handbook, Second Edition is a thoroughly updated and reorganized revision of the late Clayton Crowe's work, and provides a detailed look at the basic concepts and the wide range of

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applications in this important area of thermal/fluids engineering. Revised by the new editors, Efstathios E. (Stathis) Michaelides and John D. Schwarzkopf, the new Second Edition begins with two chapters

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covering fundamental concepts and methods that pertain to all the types and applications of multiphase flow. The remaining chapters cover the applications and engineering systems that are relevant to all the types of

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multiphase flow and heat transfer. The twenty-one chapters and several sections of the book include the basic science as well as the contemporary engineering and technological applications of

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multiphase flow in a comprehensive way that is easy to follow and be understood. The editors created a common set of nomenclature that is used throughout the book, allowing readers to easily compare

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fundamental theory with currently developing concepts and applications. With contributed chapters from sixty-two leading experts around the world, the *Multiphase Flow Handbook, Second Edition* is an essential

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reference for all researchers,
academics and engineers
working with complex thermal
and fluid systems.

Plasma Scattering of
Electromagnetic
Radiation Academic Press

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Written by an internationally-recognized team of natural gas industry experts, the fourth edition of Handbook of Natural Gas Transmission and Processing is a unique, well-researched, and comprehensive

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work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes,

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and recent developments in treating super-rich gas, high CO₂ content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's

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unconventional gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions. The updated edition is an excellent platform for gas processors and

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educators to understand the basic principles and innovative designs necessary to meet today's environmental and sustainability requirement while delivering acceptable project economics. Covers all technical

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and operational aspects of natural gas transmission and processing. Provides pivotal updates on the latest technologies, applications, and solutions. Helps to understand today's natural gas resources,

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and the best gas processing technologies. Offers design optimization and advice on the design and operation of gas plants.

This book constitutes the proceedings of the Second EAI

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international Conference on
Smart Objects and Technologies
for Social Good, GOODTECHS
2016, held in Venice, Italy,
November 30 – December 1,
2016. The 38 revised full papers
were carefully reviewed and

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selected from 73 submissions. The papers reflect the design, implementation, deployment, operation and evaluation of smart objects and technologies for social good. A social good can be understood as a service

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that benefits a large number of people in a most possible way. Some classic examples are healthcare, safety, environment, democracy, and human rights, or even art, entertainment, and communication.

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Handbook of Chemical and
Environmental Engineering
Calculations

Chemical and Engineering
Thermodynamics

Freezing Colloids: Observations,
Principles, Control, and Use

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Multiphase Flow Handbook,
Second Edition
Comparative Environmental
Impacts of Biotechnology-
derived and Traditional Soybean,
Corn, and Cotton Crops
The Cambridge Handbook of

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Physics Formulas

Population genomics has provided unprecedented opportunities to unravel the mysteries of marine organisms in the oceans' depths. The world's oceans, which make up

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70% of our planet, encompass diverse habitats and host numerous unexplored populations and species. Population genomics studies of marine organisms are rapidly emerging and have the

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potential to transform our understanding of marine populations, species, and ecosystems, providing insights into how these organisms are evolving and how they respond to different stimuli and

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environments. This knowledge is critical for understanding the fundamental aspects of marine life, how marine organisms will respond to environmental changes, and how we can better protect and

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preserve marine biodiversity and resources. This book brings together leading experts in the field to address critical aspects of fundamental and applied research in marine species and share their

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research and insights crucial for understanding marine ecosystem diversity and function. It also discusses the challenges, opportunities and future perspectives of marine population genomics.

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This review supports the conclusion that overall the currently commercialized biotechnology-derived soybean, corn, and cotton crops yield environmental benefits. Furthermore, a

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critical analysis of the literature supports the idea that biotechnology-derived soybean, corn, and cotton pose no environmental concerns unique to or different from those historically associated

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with conventionally developed crop varieties.

In 1906, Michael T. Sweet first developed the chromatographic method by using an adsorbant to separate pigments. Since that time, the

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technological advances in TLC and HPLC have brought about new definitions of purity in parallel with the advances. Radiopharmaceutical chemistry is especially dependent on the chromat

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ographic technique because of the relatively small amount of material in most radiopharmaceuticals-often so small that the usual physical methods of analytical chemistry cannot be used. As a

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result, this collection of papers represents the key to successful radiopharmaceutical development by setting the standard for the pres of radiochemical purity. ent-day

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definition William C.
Eckelman, Ph.D. Diagnostics
Associate Director The Squibb
Institute for Medical Research
New Brunswick, New Jersey
Preface The chapters herein
are updated and expanded

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versions of presentations that the authors made at a symposium held on June 4, 1984 in Los Angeles, California under the sponsorship of the Radiopharmaceutical Science Council of the Society of

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Nuclear Medicine. All manuscripts were refereed. The intent of the symposium organizers was to enlist participants who work on a day-to-day basis with the analytical and

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chromatographic techniques to be discussed at the symposium. We feel confident that this distillation of hands-on experience will be of value to graduate students as well as experienced researchers in

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radio pharmaceutical
chemistry and related fields
which use radiotracer
methodology.

Contributions reporting on
fundamental and applied
investigations of the material

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science, biochemistry, and physics of biomedical microdevices with applications to Genomics and Proteomics. Topics include gene expression profiling utilizing microarray technology; imaging and

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sensing for gene detection and use in DNA analysis; and coverage of advanced microfluidic devices and the Humane Genome Project. Natural Language Processing and Chinese Computing

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Biomedical Insights that
Inform the Diagnosis of
ME/CFS
Analytical and
Chromatographic Techniques
in Radiopharmaceutical
Chemistry

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Biomechanics and Prevention
Oxford Handbook of
Emergency Nursing
Pharmaceutical Residues in
the Environment

The current medical literature
contains ample text addressing the

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topics of trauma and critical care. However, there are few texts existing that specifically address the common surgical problems encountered by practicing acute care surgeons. *Common Problems in Acute Care Surgery* provides a

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comprehensive, evidence-based review of the most common clinical problems encountered by acute care surgeons. Focusing on the clinical care of the patient, this volume explores the general principles of acute care surgery and

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the specific disease states that are commonly encountered by acute care surgeons. The work also touches upon the ethical issues and systems development behind acute care surgery, including practical considerations for establishing an

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acute care surgery program, ethical considerations in acute care surgery, and the role of palliative care. Authored by respected experts in the field and illustrated throughout with detailed photographs, Common Problems in

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Acute Care Surgery is of great value to resident surgeons in training, fellows, and practicing surgeons in acute care surgery. Plasma Scattering of Electromagnetic Radiation covers the theory and experimental

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application of plasma scattering. The book discusses the basic properties of a plasma and of the interaction of radiation with a plasma; the relationship between the scattered power spectrum and the fluctuations in plasma density;

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and the incoherent scattering of low-temperature plasma. The text also describes the constraints and problems that arise in the application of scattering as a diagnostic technique; the characteristic performance of

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various dispersion elements, image dissectors, and detectors; and the general scattered spectrum for an unmagnetized, low-temperature, quasi-equilibrium plasma. The application of the general scattered spectrum for a magnetized plasma;

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the scattering from a high-temperature plasma; and the scattering from unstable plasmas are also encompassed. Plasma physicists and people involved in the study of electromagnetic radiation will find the book

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invaluable.

The lentil was one of the first foods ever to have been cultivated. This book presents the most comprehensive and up-to-date review of research on lentil production, biotic and abiotic stress

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management, quality seed production, storage techniques and lentil growing around the world. This book will be of great value to legume breeders, scientists, nutritionists, academic researchers, graduate students, farmers, traders

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and consumers in the developed and the developing world. Because of the ubiquitous nature of environmental problems, a variety of scientific disciplines are involved in the development of environmental solutions. The

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Handbook of Chemical and Environmental Engineering Calculations provides approximately 600 real-world, practical solutions to environmental problems that involve chemical engineering, enabling engineers

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and applied scientists to meet the professional challenges they face day-to-day. The scientific and mathematical crossover between chemical and environmental engineering is the key to solving a host of environmental problems.

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Many problems included in the Handbook are intended to demonstrate this crossover, as well as the integration of engineering with current regulations and environmental media such as air, soil, and water. Solutions to the

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problems are presented in a programmed instructional format. Each problem contains a title, problem statement, data, and solution, with the more difficult problems located near the end of each problem set. The Handbook

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offers material not only to individuals with limited technical background but also to those with extensive industrial experience. Chapter titles include: Chemical Engineering Fundamentals
Chemical Engineering Principles Air

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Pollution Control Equipment Solid Waste Water Quality and Wastewater Treatment Pollution Prevention Health, Safety, and Accident Management Ideal for students at the graduate and undergraduate levels, the

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Handbook of Chemical and Environmental Engineering Calculations is also a comprehensive reference for all plant and environmental engineers, particularly those who work with air, drinking water, wastewater,

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hazardous materials, and solid waste.

Volume II: Micro/Nano
Technologies for Genomics and
Proteomics
Materials and Processes
Book Of Abstracts Of The 58th

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Annual Meeting Of The European
Association For Animal Production

The Prion Protein

Lentil

Environmental Management in
Construction

Emergency nursing requires rapid

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assessment and decision-making. Often nurses are required to make sense of considerable amounts of information and act on it. The Oxford Handbook of Emergency Nursing provides an essential resource when time is short and the need for practical clinical guidance is paramount. This second edition has been

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fully updated to reflect new guidelines and approaches which have impacted emergency nursing in recent years. This handbook provides clear, focussed information that will aid all areas of patient assessment and management in emergency care. The concise format will enable the reader to quickly locate the information

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needed and provides alerts regarding critical 'must-dos' for ill adults and children. The skills section provides a quick summary of the many clinical skills needed in emergency care, ideal as an introduction for the uninitiated and as a refresher for skills performed infrequently. Additionally, this second edition has been

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expanded to cover nursing in major trauma and emergencies in the elderly. This handbook will empower nurses to deliver excellence in emergency care. Written by practising nurses and subject experts, the Oxford Handbook of Emergency Nursing is a unique and invaluable companion for qualified and student nurses, and to all

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health care professionals working in the emergency care setting.

Prion diseases, or transmissible spongiform encephalopathies (TSEs), are a group of fatal and transmissible neurodegenerative disorders characterized by long incubation periods, misfolded prion protein (PrP) deposition, and usually spongiform

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vacuolation. These devastating diseases affect many mammals, with the best known examples being Creutzfeldt-Jakob disease (CJD), fatal familial insomnia (FFI), or Kuru in humans; and scrapie in sheep, bovine spongiform encephalopathy (BSE) in cattle, and chronic wasting disease (CWD) in cervids. Despite major

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achievements in research of TSEs, there are still many unresolved key issues that hamper the development of effective therapies. However, the last decade has been particularly prolific in advances in the prion field. Among others, prion propagation in vitro has been achieved, leading to new diagnostic methods; the

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basic architecture of infectious prions has been deciphered; new prion disease types have been described in humans and other animals; and prion disorders have emerged in places that had not previously reported the disorders, as is the case for CWD in Europe. This Special Issue will focus on the state of the art of our knowledge of PrPSc:

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on what we know about its structure and propagation, the basis of strains and transmission barriers, the mechanisms of PrPSc toxicity, the possible function of PrPSc's properly folded precursor, PrPC and its evolutionary history, and recent technical breakthroughs in diagnostics and therapy development among other key

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aspects of PrPSc prion biology. Pharmaceuticals, due to their pseudo-persistence and biological activity as well as their extensive use in human and veterinary medicine, are a class of environmental contaminants that is of emerging concern. In contrast to some conventional pollutants, they are

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continuously delivered at low levels, which might give rise to toxicity even without high persistence rates. These chemicals are designed to have a specific physiological mode of action and to resist frequently inactivation before exerting their intended therapeutic effect. These features, among others, result in the bioaccumulation of

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pharmaceuticals which are responsible for toxic effects in aquatic and terrestrial ecosystems. It is extremely important to know how to remove them from the environment and/or how to implement procedures or treatments resulting in their biological inactivation. Although great advances have been made in their detection

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in aquatic matrices, there remains limited analytical methodologies available for the trace analysis of target and non-target pharmaceuticals in matrices such as soils, sediments, or biota. There are still many gaps in the data on their fate and behavior in the environment as well as on their threats to ecological and human health.

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This book has included nine current research and three review articles in this field.

Now in its third edition, *Fundamentals of Microfabrication and Nanotechnology* continues to provide the most complete MEMS coverage available. Thoroughly revised and updated the new edition of this

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perennial bestseller has been expanded to three volumes, reflecting the substantial growth of this field. It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials, processes, and manufacturing options. The first volume

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offers a rigorous theoretical treatment of micro- and nanosciences, and includes sections on solid-state physics, quantum mechanics, crystallography, and fluidics. The second volume presents a very large set of manufacturing techniques for micro- and nanofabrication and covers different forms of lithography, material removal

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processes, and additive technologies. The third volume focuses on manufacturing techniques and applications of Bio-MEMS and Bio-NEMS. Illustrated in color throughout, this seminal work is a cogent instructional text, providing classroom and self-learners with worked-out examples and end-of-chapter problems. The author

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characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work.

Dietary Starches and Sugars in Man: A
Comparison

Diabetes Mellitus and Human Health Care
Data Compilation

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Volume II

Applications in Materials Science, Life
Science, Earth Science, Food Science, and
Engineering

Principles and Practices

Myalgic

encephalomyelitis/chronic

fatigue syndrome (ME/CFS) is a

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severe chronic health condition that is often misunderstood or ignored by health establishments. The lack of definitive diagnostic markers to separate ME/CFS patients from the healthy population as well as

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from other chronic disorders is problematic for both health professionals and researchers. A consortium of Australian researchers gathered to systematically understand ME/CFS, ranging from a deep

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analysis of clinical and pathology data to metabolomic profiles and the investigation of mitochondrial function. From this broad collaboration, a number of compelling insights have arisen that may form the

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basis of specific serum, blood, and/or urinary biomarkers of ME/CFS. This Special Edition reports on a conference centred on these biomedical discoveries, with other contributions, with a translation focus for predictive

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markers for ME/CFS diagnosis. By supporting health professionals with developments in diagnostics for this condition, the patients and their families will hopefully benefit from an improved recognition of the

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biomedical underpinnings of the condition and will be better able to access the care that is urgently required. This Special Edition contains a mix of speaker submissions and other accepted manuscripts that contributed to

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our objective of advancing biomedical insights to enable the accurate diagnosis of ME/CFS. This book provides a state-of-the-art look at the applied biomechanics of accidental injury and prevention. The

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editors, Drs. Narayan Yoganandan, Alan M. Nahum and John W. Melvin are recognized international leaders and researchers in injury biomechanics, prevention and trauma medicine. They have

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assembled renowned researchers as authors for 29 chapters to cover individual aspects of human injury assessment and prevention. This third edition is thoroughly revised and expanded with new

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chapters in different fields.
Topics covered address
automotive, aviation, military and
other environments. Field data
collection; injury coding/scaling;
injury epidemiology;
mechanisms of injury; human

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tolerance to injury; simulations using experimental, complex computational models (finite element modeling) and statistical processes; anthropomorphic test device design, development and validation for crashworthiness

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applications in topics cited above; and current regulations are covered. Risk functions and injury criteria for various body regions are included. Adult and pediatric populations are addressed. The exhaustive list of

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references in many areas along with the latest developments is valuable to all those involved or intend to pursue this important topic on human injury biomechanics and prevention. The expanded edition will

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interest a variety of scholars and professionals including physicians, biomedical researchers in many disciplines, basic scientists, attorneys and jurists involved in accidental injury cases and governmental

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bodies. It is hoped that this book will foster multidisciplinary collaborations by medical and engineering researchers and academicians and practicing physicians for injury assessment and prevention and stimulate

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more applied research,
education and training in the
field of accidental-injury
causation and prevention.
This book presents a
comprehensive overview of the
freezing of colloidal suspensions

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and explores cutting-edge research in the field. It is the first book to deal with this phenomenon from a multidisciplinary perspective, and examines the various occurrences, their technological

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uses, the fundamental phenomena, and the different modeling approaches. Its chapters integrate input from fields as diverse as materials science, physics, biology, mathematics, geophysics, and

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food science, and therefore provide an excellent point of departure for anyone interested in the topic. The main content is supplemented by a wealth of figures and illustrations to elucidate the concepts

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presented, and includes a final chapter providing advice for those starting out in the field. As such, the book provides an invaluable resource for materials scientists, physicists, biologists, and mathematicians, and will

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also benefit food engineers, civil engineers, and materials processing professionals. Demands on the construction industry are changing, and it is now virtually essential for environmental management to

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be considered at all stages of a project. Many construction managers are finding a quantitative approach useful, and this book outlines four quantitative methods which can be applied at different

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construction stages, and which fit within a comprehensive framework of dynamic Environmental Impact Assessment (EIA). These include: a method to quantitatively evaluate and

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reduce pollution and hazards
levels a method to evaluate the
environmental-consciousness of
proposed construction plans a
method to reduce on-site
construction wastes through an
incentive reward programme a

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method to promote C and D waste exchange in the local construction industry. With an experimental case study of the application of these methods, this book delivers a comprehensive review of

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environmental management issues in construction. With regulatory requirements potentially favouring the quantitative approach, this timely guide ensures that contractors will be able to keep pace with

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environmental management
standards.

Polarized Light in Animal Vision

The Cultivator & Country

Gentleman

The Management of Trauma

Ubiquitin and the Biology of the

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Cell

Emulsion Science and
Technology

PrPSc Prions: State of the Art
*An invaluable quick-reference aid of
more than 2000 of the most useful
maths and physics formulas.*

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This book will enlighten on some of the recent progress in diabetic care and therapy. Diabetes mellitus is a group of metabolic diseases in which a person has high blood sugar, either because the body does not produce enough insulin, or because of the inability of cells to respond to the

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insulin that is produced. According to the recent report of World Health Organization, 346 million people worldwide are suffering from diabetes, and in 2004, approximately 3.4 million people died as a result of high blood sugar. This book explores applying both classical and modern approaches

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to the management of diabetes by focusing on a holistic approach. Great attention has been focused on global trends in diabetes, epidemiology of diabetes, inhibitors in diabetes and diabetes therapy, vitamins and diabetes, and the role of dietary fats in diabetes in this book. Topics include: •

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diabetic foot ulcers and therapeutic footwear • Withania coagulans. Dunal as an antidiabetic herb • the pharmacological interventions for diabetic cardiomyopathy • the use of saliva as a noninvasive tool to monitor glycemic control in diabetic patients • a cutting-edge biomedical device for

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continuous in vivo glucose monitoring

- *the temporal effect of repeated stress in the pathophysiology of T2DM*
- *nanosensor technology for glucose detection*

The editors and authors emphasize a holistic approach toward the diagnosis, treatment, and management of diabetes by joining

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hands with experts from various disciplines Medical students and doctors of modern medicine, Ayurveda, homeopathy, etc., medical reserachers, researchers in the area of diabetes, pharma professionals. A revised edition of the well-received thermodynamics text, this work retains

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the thorough coverage and excellent organization that made the first edition so popular. Now incorporates industrially relevant microcomputer programs, with which readers can perform sophisticated thermodynamic calculations, including calculations of the type they will encounter in the lab

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and in industry. Also provides a unified treatment of phase equilibria.

Emphasis is on analysis and prediction of liquid-liquid and vapor-liquid equilibria, solubility of gases and solids in liquids, solubility of liquids and solids in gases and supercritical fluids, freezing point depressions and

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osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

*Second International Conference,
GOODTECHS 2016, Venice, Italy,
November 30 – December 1, 2016,
Proceedings*

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*Accidental Injury
An Ancient Crop for Modern Times*

*8th CCF International Conference,
NLPCC 2019, Dunhuang, China,
October 9–14, 2019, Proceedings
Physical and Thermodynamic
Properties of Pure Chemicals*

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