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This book is open access
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license. This book offers 19
detailed protocols on the

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use of induced mutations in crop breeding and functional genomics studies, which cover topics including chemical and physical mutagenesis, phenotypic screening methods, traditional TILLING and

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TILLING by sequencing, doubled haploidy, targeted genome editing, and low-cost methods for the molecular characterization of mutant plants that are suitable for laboratories in developing countries. The collection of

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protocols equips users with the techniques they need in order to start a program on mutation breeding or functional genomics using both forward and reverse-genetic approaches. Methods are provided for seed and

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vegetatively propagated crops (e.g. banana, barley, cassava, jatropha, rice) and can be adapted for use in other species.

A comprehensive overview of the latest developments in world trade, covering the

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details of merchandise trade
by product and trade in
commercial services

Lithuanian horses are part
of Lithuania's cultural
heritage. Horse lovers,
professionals and amateurs,
know about the old horse

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breed ?emaitukas. Though
?emaitukai gave the
beginning of three breeds:
Trakehner, Lithuanian Heavy
Draught Horses and
?emaitukas the heavy-type,
they themselves were on the
edge of the xtinct many

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times. This book illuminates the common history of a Lithuanian and a horse in various aspects. The appearance of ?emaitukas and other Lithuanian horse breeds, their diffusion, the condition of equestrian

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sports and horse-breeding perspectives in Lithuania are reviewed in this stunning book.

Ancestral sequence reconstruction is a technique of growing importance in molecular

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evolutionary biology and comparative genomics. As a powerful tool for testing evolutionary and ecological hypotheses, as well as uncovering the link between sequence and molecular phenotype, there are

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potential applications in a range of fields. Ancestral Sequence Reconstruction starts with a historical overview of the field, before discussing the potential applications in drug discovery and the

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pharmaceutical industry.
This is followed by a
section on computational
methodology, which provides
a detailed discussion of the
available methods for
reconstructing ancestral
sequences (including their

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advantages, disadvantages, and potential pitfalls). Purely computational applications of the technique are then covered, including wholeproteome reconstruction. Further chapters provide a detailed

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discussion on taking
computationally
reconstructed sequences and
synthesizing them in the
laboratory. The book
concludes with a description
of the scientific questions
where experimental ancestral

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sequence reconstruction has been utilized to provide insights and inform future research. This research level text provides a first synthesis of the theories, methodologies and applications associated with

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ancestral sequence recognition, while simultaneously addressing many of the hot topics in the field. It will be of interest and use to both graduate students and researchers in the fields of

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molecular biology, molecular evolution, and evolutionary bioinformatics.

Property & Casualty

Insurance (Core with Georgia)

Healthcare and Industrial Applications

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ILO-CIS Bulletin

A Decision-making Approach

I.I.I. Insurance Fact Book

Guan Li Kuai Ji (Ying Wen

Ban Yuan Shu Di 16 Ban)

**Immunosensors are widely
used and are**

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**particularly important
for fast diagnosis of
diseases in remote
environments as well as
point-of-care devices.
In this book, expert
scientists are covering**

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**a selection of high
quality representative
examples from the past
five years explaining
how this area has
developed. It is a
compilation of recent**

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**advances in several
areas of immunosensors
for multiple target
analysis using
laboratory based or
point-of-care set-up,
for example graphene-,**

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**ISFET- and nanostructure-
based immunosensors,
electrochemical magneto
immunosensors and
nanoimprinted
immunosensors. Filling a
gap in the literature,**

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it showcases the multidisciplinary, innovative developments in this highly important area and provides pointers towards commercialisation.

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**Delivering a single,
comprehensive work, it
appeals to graduate
students and
professional researchers
across academia and
industry.**

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**The Darwin Elasmobranch
Biodiversity
Conservation and
Management project in
Sabah held a three-day
international seminar
that included a one-day**

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**workshop in order to
highlight freshwater and
coastal elasmobranch
conservation issues in
the region and
worldwide, to
disseminate the result**

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**of the project to other
Malaysian states and
countries, and to raise
awareness of the
importance of
considering aspects of
elasmobranch**

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**biodiversity in the
context of nature
conservation, commercial
fisheries management,
and for subsistence
fishing communities.
These proceedings**

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contain numerous peer-reviewed papers originally presented at the seminar, which cover a wide range of topics, with particular reference to species

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**from freshwater and
estuarine habitats. The
workshop served to
develop recommendations
concerning the future
prospects of
elasmobranch fisheries,**

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**biodiversity,
conservation and
management. This paper
records those
conclusions, which
highlight the importance
of elasmobranchs as top**

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marine predators and keystone species, noting that permanent damage to shark and ray populations are likely to have serious and unexpected negative

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**consequences for
commercial and
subsistence yields of
other important fish
stocks.**

**Wheat Blast provides
systematic and practical**

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**information on wheat
blast pathology,
summarises research
progress and discusses
future perspectives
based on current
understanding of the**

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existing issues. The book explores advance technologies that may help in deciding the path for future research and development for better strategies and

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**techniques to manage the
wheat blast disease. It
equips readers with
basic and applied
understanding on the
identification of
disease, its**

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**distribution and chances
of further spread in new
areas, its potential to
cause yield losses to
wheat, the conditions
that favour disease
development, disease**

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**prediction modelling,
resistance breeding
methods and management
strategies against wheat
blast. Features:
Provides comprehensive
information on wheat**

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**blast pathogen and its
management under a
single umbrella Covers
disease identification
and diagnostics which
will be helpful to check
introduction in new**

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**areas Discusses methods
and protocol to study
the different aspects of
the disease such as
diagnostics,
variability, resistance
screening, epiphytotic**

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creation etc. Gives deep insight on the past, present and future outlook of wheat blast research progress This book's chapters are contributed by experts

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**and pioneers in their
respective fields and it
provides comprehensive
insight with updated
findings on wheat blast
research. It serves as a
valuable reference for**

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**researchers, policy
makers, students,
teachers, farmers, seed
growers, traders, and
other stakeholders
dealing with wheat.
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specialists. Guided by
specialists and junior
doctors, the ninth
edition of this handbook
sees fully revised and
updated artwork,**

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**references, and clinical
advice. This edition
maintains its unique
perspective on patient
care, drawing on
literature, history, and
philosophy to encourage**

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**the reader to broaden
their definition of
medicine. Fully cross-
referenced to the Oxford
Handbook of Clinical
Medicine, this is
essential book contains**

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**everything needed for
training, revision, and
clinical practice.**

**Security Owner's Stock
Guide**

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Biological Anthropology**

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**Harnessing Public
Research for Innovation
in the 21st Century
World Trade Statistical
Review 2019
Memmler's Structure and
Function of the Human**

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Body

Enzymatic

Bioelectrocatalysis

Based on focus groups and interviews with nearly 4,000 women, men, girls, and boys from 20 countries, this book explores areas

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that are less often studied in gender and development: gender norms and agency. It reveals how little gender norms have changed, how similar they are across countries, and how they are being challenged and contested.

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This book explores the status of paper-based diagnostic solutions, or Microfluidics 2.0. The contributors explore: how paper-based tests can be widely distributed and utilized by semi-skilled personnel; how close to commercial applications the

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technology has become, and what is still required to make paper-based diagnostics the game-changer it can be. The technology is examined through the lens of the World Health Organization's ASSURED criteria for low-resource countries

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(Affordable, Sensitive, Specific, User-friendly, Rapid and robust, Equipment-free, and Deliverable to end-users). Its applications have to include: health technology, environmental technology, food safety, and more. This book is

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appropriate for researchers in these areas, as well as those interested in microfluidics, and includes chapters dedicated to principles such as theory of flow and surface treatments; components such as biomarkers and detection; and

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*current methods of manufacturing.
Discusses how paper-based
diagnostics can be used in
developing countries by comparing
current diagnostic tests with the
World Health Organization's
ASSURED criteria Examines how*

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paper-based diagnostics could be integrated with other technologies, such as printed electronics, and the Internet of Things. Outlines how semi-skilled personnel across a variety of fields can implement paper-based diagnostics

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Time-correlated Single Photon Counting has been written in the hope that by relating the authors' experiences with a variety of different single photon counting systems, they may provide a useful service to users and potential users

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of this formidably sensitive technique. Of all the techniques available to obtain information on the rates of depopulation of excited electronic singlet states of molecular species, monitoring of fluorescence provides, in principle, the simplest

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and most direct measure of concentration. This volume comprises eight chapters, with the first focusing on the time dependence and applications of fluorescence. Succeeding chapters go on to discuss basic principles of

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the single photon counting lifetime measurement; light sources; photomultipliers; electronics; data analysis; nanosecond time-resolved emission spectroscopy; time dependence of fluorescence anisotropy. This book will be of

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interest to practitioners in the field of chemistry.

Starting in the early 1970s, a type of programmed cell death called apoptosis began to receive attention. Over the next three decades, research in this area continued at an

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accelerated rate. In the early 1990s, a second type of programmed cell death, autophagy, came into focus. Autophagy has been studied in mammalian cells for many years. The recen

An Introductory Perspective

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Protocols

*Managerial Accounting (16th
Edition)*

Polyelectrolytes

Paper-based Diagnostics

Wheat Blast

This comprehensive text presents

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descriptive and inferential statistics with an assortment of business examples and real data, and an emphasis on decision-making. The accompanying CD-ROM presents Excel and Minitab tutorials as well as data files for all the exercises and

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exmaples presented.

This book offers a valuable reference source to graduate and post graduate students, engineering students, research scholars polymer engineers from industry. The book provides the reader with current developments of

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theoretical models describing the thermodynamics polyelectrolytes as well as experimental findings. A particular emphasis is put on the rheological description of polyelectrolyte solutions and hydrogels.

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In 1984 Desmond O'Connor and David Phillips published their comprehensive book „Time-correlated Single Photon Counting“. At that time time-correlated single photon counting, or TCSPC, was used primarily to record fluorescence decay functions of

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dye solutions in cuvettes. From the beginning, TCSPC was an amazingly sensitive and accurate technique with excellent time-resolution. However, acquisition times were relatively slow due to the low repetition rate of the light sources and the limited speed of

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the electronics of the 70s and early 80s. Moreover, TCSPC was intrinsically one-dimensional, i.e. limited to the recording of the waveform of a periodic light signal. Even with these limitations, it was a wonderful technique. More than 20 years have

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elapsed, and electronics and laser techniques have made impressive progress. The number of transistors on a single chip has approximately doubled every 18 months, resulting in a more than 1,000-fold increase in complexity and speed. The repetition

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rate and power of pulsed light sources have increased by about the same factor.

Practical Handbook of Microbiology, 4th edition provides basic, clear and concise knowledge and practical information about working with

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microorganisms. Useful to anyone interested in microbes, the book is intended to especially benefit four groups: trained microbiologists working within one specific area of microbiology; people with training in other disciplines, and use

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microorganisms as a tool or "chemical reagent"; business people evaluating investments in microbiology focused companies; and an emerging group, people in occupations and trades that might have limited training in microbiology, but who require specific

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practical information. Key Features
Provides a comprehensive
compendium of basic information on
microorganisms—from classical
microbiology to genomics. Includes
coverage of disease-causing bacteria,
bacterial viruses (phage), and the use of

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phage for treating diseases, and added coverage of extremophiles. Features comprehensive coverage of antimicrobial agents, including chapters on anti-fungals and anti-virals. Covers the Microbiome, gene editing with CRISPR, Parasites, Fungi, and

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Animal Viruses. Adds numerous chapters especially intended for professionals such as healthcare and industrial professionals, environmental scientists and ecologists, teachers, and businesspeople. Includes comprehensive survey table of Clinical,

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Commercial, and Research-Model
bacteria.

Handbook of Energy Efficiency and
Renewable Energy

Proceedings of the International
Seminar and Workshop, Sabah,
Malaysia, July 1997

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Biotechnologies for Plant Mutation
Breeding

Oxford Handbook of Clinical
Specialties

Path Integrals in Quantum Mechanics,
Statistics, Polymer Physics, and
Financial Markets

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Problems and Solutions on
Thermodynamics and Statistical
Mechanics

***The five-volume set LNCS
7971-7975 constitutes the
refereed proceedings of the
13th International Conference***

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***on Computational Science and
Its Applications, ICCSA 2013,
held in Ho Chi Minh City,
Vietnam in June 2013. The 248
revised papers presented in
five tracks and 33 special
sessions and workshops were***

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carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific

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applications; high-performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and

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technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to

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***specific areas of
computational sciences such
as computer graphics and
virtual reality.***

***World Trade Statistical Review
2019 International Trade
Statistics***

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handbooks, the Handbook of
Energy Efficiency and
Renewable Energy provides a
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analytic techniques and***

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technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable

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energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about

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energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be

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ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable

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energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes

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on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies.

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Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC

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controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and

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***underlines the role of
infrastructure security and risk
analysis in planning future
energy transmission and
storage systems. These
features and more make the
Handbook of Energy***

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***Efficiency and Renewable
Energy the tool for designing
the energy sources of the
future.***

***The first comprehensive
overview of an emerging field,
Metabolic Medicine and***

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Surgery introduces a new paradigm in patient management that crosses existing subspecialty boundaries. This approach is necessitated by the challenges of treating patients with

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***obesity, metabolic syndrome,
cardiovascular disease and
prediabetes, as well as those
with maldigestion,
malabsorption, malnutrition
and nutritional deficiencies.
This book teaches physicians***

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and surgeons what they need to know about clinical nutrition, metabolism and the metabolic effects of bariatric surgery. It is also applicable to those in primary care, including physicians,

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***residents, medical students,
nurses and nurse
practitioners, physician
assistants and dietitians who
are on the front lines of
treating patients with obesity,
diabetes and cardiovascular***

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disease. The book is presented in four sections: 1. An Overview of Metabolic Medicine and Surgery; 2. Metabolic Syndrome, Insulin Resistance and Obesity; 3. Diseases of Undernutrition

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and Absorption; 4. A Nutritional Relationship to Neurological Diseases. It contains chapters from world-renowned experts who are widely published in major medical journals. The book

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also benefits from the contributions of clinicians with extensive experience and perspective in the field, including many who have been witness to its major developments. This book's

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strength lies in the cross-specialty consensus created by the collaboration of the editors and further developed by their renowned contributors. It demonstrates how medicine, surgery,

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therapeutics, and nutrition can be combined synergistically to impact patient outcomes. It crystallizes the efforts of a multitude of physicians and scientists trying to control the linked pandemics of obesity,

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type-2 diabetes and cardiovascular disease. This book helps you develop comprehensive solutions to diseases afflicting vast numbers of patients worldwide.

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Management
An International Assessment
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Fundamentals of Tissue
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Medicine
Chemical Analysis of Food:***

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***Techniques and Applications
reviews new technology and
challenges in food analysis
from multiple perspectives:
a review of novel
technologies being used in
food analysis, an in-depth***

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analysis of several specific approaches, and an examination of the most innovative applications and future trends. This book won a 2012 PROSE Award Honorable Mention in

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Chemistry and Physics from the Association of American Publishers. The book is structured in two parts: the first describes the role of the latest developments in analytical and bio-analytical

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techniques and the second reviews the most innovative applications and issues in food analysis. Each chapter is written by experts on the subject and is extensively referenced in order to serve

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as an effective resource for more detailed information. The techniques discussed range from the non-invasive and non-destructive, such as infrared spectroscopy and ultrasound, to emerging

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areas such as nanotechnology, biosensors and electronic noses and tongues. Important tools for problem-solving in chemical and biological analysis are discussed in detail. Winner

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***of a PROSE Award 2012,
Book: Honorable Mention in
Physical Sciences and
Mathematics - Chemistry
and Physics from the
American Association of
Publishers Provides***

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***researchers with a single
source for up-to-date
information in food analysis
Single go-to reference for
emerging techniques and
technologies Over 20
renowned international***

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***contributors Broad coverage
of many important
techniques makes this
reference useful for a range
of food scientists
Topological restrictions.
These are relevant to the***

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***understanding of the
statistical properties of
elementary particles and the
entanglement phenomena in
polymer physics and
biophysics. The Chern-
Simons theory of particles***

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with fractional statistics (anyons) is introduced and applied to explain the fractional quantum Hall effect." "The relevance of path integrals to financial markets is discussed, and

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***improvements of the famous
Black-Scholes formula for
option prices are developed
which account for the fact
that large market
fluctuations occur much
more frequently than in***

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Gaussian distributions."

--Book Jacket.

***The book compiles the main
ideas and methodologies
that have been proposed and
tested within these last
fifteen years in the field of***

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***Digital Soil Mapping (DSM).
Begining with current
experiences of soil
information system
developments in various
regions of the world, this
volume presents states of***

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***the art of different topics
covered by DSM: Conception
and handling of soil
databases, sampling
methods, new soil spatial
covariates, Quantitative
spatial modelling, Quality***

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***assessment and
representation of DSM
outputs. This book provides
a solid support to students,
researchers and engineers
interested in modernising
soil survey approaches with***

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methodologies of Digital Soil Mapping * Offers a variety of specialities: soil surveying, geostatistics, data mining, fuzzy logic, remote sensing techniques, Geographical Information Science,...*

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***Written by 82 researchers
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Paediatric Nephrology is
designed to help the reader
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kidney in childhood. It is***

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***injury and transplantation,
all aspects are covered in
this concise yet
comprehensive guide to this
specialist area. It is an
invaluablereference for both
the general paediatrician***

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***and the specialist on: ·
history taking and
examination, urinalysis and
radiological investigations; ·
the management of acute
emergencies such as fluid,
electrolyte and acid-base***

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imbalances and acute renal failure; · renal problems in the neonate; · issues involving immunology, dialysis, vaccination and drug prescribing; · key areas, such as chronic

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***kidney disease,
transplantation, and acute
kidney injury. The appendix
provides useful additional
information and protocols.
This new edition is up-to-
date and evidence-based***

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when possible. Tables and equations direct readers to the use of relevant medication and drug dosages.

Explorations

Metabolic Medicine and

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Surgery

***Computational Science and
Its Applications -- ICCSA
2013***

***Epidemiology of Lung
Cancer***

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A Revision Guide

Optimizing Company Cash provides a comprehensive guide to all elements of cash management in a business including:
Inflows Outflows Cash

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conversion cycles Short-term borrowing and investing International business How to structure a corporate treasury function In over 200 pages, the Guide explains

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how CPAs and financial managers can manage their company's short-term resources to sustain ongoing activities, mobilize funds and optimize liquidity. It

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also provides diagrams of work flows, step-by-step checklists, templates, and treasury tips for CPAs and finance managers who are responsible for making the most of working capital

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and short-term resources. Providing a historical perspective on the etiology of lung cancer, this comprehensive reference presents an in-depth analysis of the

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epidemiology of cancer of the lung-describing the current understanding of risk factors and the use of epidemiological data to design programs for the control of this leading

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cause of death worldwide.

"Fundamentals of Tissue
Engineering and
Regenerative Medicine"
provides a complete
overview of the state of
the art in tissue

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engineering and regenerative medicine. Tissue engineering has grown tremendously during the past decade. Advances in genetic medicine and stem cell technology have

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significantly improved the potential to influence cell and tissue performance, and have recently expanded the field towards regenerative medicine. In recent years

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a number of approaches have been used routinely in daily clinical practice, others have been introduced in clinical studies, and multitudes are in the preclinical

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testing phase. Because of these developments, there is a need to provide comprehensive and detailed information for researchers and clinicians on this rapidly expanding

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field. This book offers, in a single volume, the prerequisites of a comprehensive understanding of tissue engineering and regenerative medicine. The

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book is conceptualized according to a didactic approach (general aspects: social, economic, and ethical considerations; basic biological aspects of regenerative medicine:

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stem cell medicine,
biomolecules, genetic
engineering; classic
methods of tissue
engineering: cell, tissue,
organ culture;
biotechnological issues:

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scaffolds; bioreactors,
laboratory work; and an
extended medical
discipline oriented
approach: review of
clinical use in the
various medical

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specialties). The content of the book, written in 68 chapters by the world's leading research and clinical specialists in their discipline, represents therefore the

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recent intellect,
experience, and state of
this bio-medical field.

Volume 5.

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Stone's Plastic Surgery Facts 4e provides a complete revision tool for the FRCS exit examination in plastic surgery. Written in the form of notes and lists, the full range of plastic surgery topics is covered as follows, wound care, burns, head &

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highlight important points and explain common misconceptions. A vital resource for the surgical trainee.

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which a redox enzyme reaction is coupled with an electrode reaction. Described here are the basic concept and theoretical aspects of bioelectrocatalysis and the various experimental techniques and materials used to study and characterize related problems. Also

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included are the various applications of bioelectrocatalysis to bioelectrochemical devices including biosensors, biofuel cells, and bioreactors. This book is a unique source of information in the area of enzymatic bioelectrocatalysis, approaching

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the impact of work done
at public research
institutions and
universities to boost
innovation and growth.
Before the concept of
history began, humans

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undoubtedly acquired
life benefits by
discovering medicinal
and aromatic plants
(MAPs) that were food
and medicine. Today, a
variety of available

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herbs and spices are used and enjoyed throughout the world and continue to promote good health. The international market is also quite welcoming for

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MAPs and essential oils. The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils. These

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consumer choices lead to growing preference for organic and herbal based products in the world market. As the benefits of medicinal and aromatic plants are

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recognized, these plants will have a special role for humans in the future. Until last century, the production of botanicals relies to a large degree on wild-

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collection. However, the increasing commercial collection, largely unmonitored trade, and habitat loss lead to an incomparably growing pressure on plant

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populations in the wild. Therefore, medicinal and aromatic plants are of high priority for conservation. Given the above, we bring forth a comprehensive volume,

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Conference, ICCSA 2013,
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Vietnam, June 24-27,
2013, Proceedings, Part
V