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**Blackwell Science
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And
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An eye-opening, mind-bending

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*exploration of how mankind is
reshaping its genetic future,
based on the viral TED Talk
series "Will Our Kids Be a
Different Species?" and "The
Next Species of Human." Are
you willing to engineer the DNA*

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of your unborn children and grand-children to be healthier? Better looking? More intelligent? Why are rates of autism, asthma, and allergies exploding at an unprecedented pace? Why are humans living

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longer and having far fewer kids? Futurist Juan Enriquez and scientist Steve Gullans conduct a sweeping tour of how humans are changing the course of evolution for all species—sometimes

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*intentionally, sometimes not.
For example: • What if life
forms are limited only by the
bounds of our imagination? Are
designer babies and pets, de-
extinction, even entirely
newspecies fair game? • As*

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humans, animals, and plants become ever more resistant to disease and aging, what will become the leading causes of death? • Man-machine interfaces may allow humans to live much longer. What will

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happen when we transfer parts of our “selves” into clones, into stored cells and machines? Though these harbingers of change are deeply unsettling, the authors argue we are also in an epoch of tremendous

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opportunity. Future humans, perhaps a more diverse, resilient, gentler, and intelligent species, may become better caretakers of the planet—but only if we make the right choices now.

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Intelligent, provocative, and optimistic, Evolving Ourselves is the ultimate guide to the next phase of life on Earth.

Chosen by Nature magazine as a Fall 2016 season highlight.

Wood has played a major role

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throughout human history. Strong and versatile, the earliest humans used wood to make shelters, cook food, construct tools, build boats, and make weapons. Recently, scientists, politicians, and

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economists have renewed their interest in wood because of its unique properties, aesthetics, availability, abundance, and perha

This handbook provides an authoritative, up-to-date

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*overview of the social
psychology of group processes.
The topics covered include
group decisions, juries, group
remembering, roles, status,
leadership, social identity and
group membership,*

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*socialization, group
performance, negotiation and
bargaining, emotion and mood,
computer-mediated
communication, organizations
and mental health. Provides an
authoritative, up-to-date*

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*overview of the social
psychology of group processes.
Written by leading researchers
from around the world to
provide a classic and current
overview of research as well as
providing a description of*

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*future trends within the area.
Includes coverage of group
decisions, juries, group
remembering, roles, status,
leadership, social identity and
group membership,
socialization, group*

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performance, negotiation and bargaining, emotion and mood, computer-mediated communication, organizations and mental health. Essential reading for any serious scholar of group behavior. Now

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reference library on the web
from xrefer. For more
information, visit
www.xreferplus.com
Strength and Conditioning for*

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Young Athletes offers an evidence-based introduction to the theory and practice of strength and conditioning for children and young athletes. Drawing upon leading up-to-date research in all aspects of

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fitness and movement skill development, the book adopts a holistic approach to training centred on the concept of long-term athletic development and the welfare of the young athlete. While other textbooks

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focus on a single aspect of youth trainability, this book explores every key topic in strength and conditioning as applied to young people, including: talent identification motor skill development

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*strength, power and
plyometrics speed and agility
metabolic conditioning mobility
and flexibility periodization
weightlifting myths
overtraining and injury
prevention nutrition. Written by*

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a team of leading international strength and conditioning experts and paediatric sport scientists, every chapter includes programming guidelines for youths throughout childhood and

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adolescence to show how the latest scientific research can be applied by coaches to optimize young athletic potential. This is an essential resource for all students of strength and conditioning or

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paediatric exercise science, as well as any coach or athletic trainer working with children and young people.

Handbook of Alcoholic Beverages

Youth Ethnic and National

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*Identity in Bosnia and
Herzegovina*

*A Companion to Forensic
Anthropology*

*Engineering Geology and
Geomorphology of Glaciated
and Periglaciated Terrains*

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*Identification and Use as
Bioindicators*

*Diagnostics and Marker
Developments*

**Dealing with the dynamics
of identification and
conflict, this book uses**

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theoretical orientations ranging from political ecology to rational choice theory, interpretive approaches, Marxism and multiscalar analysis. Case studies set in Africa,

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Europe and Central Asia
are grouped in three
sections devoted to
pastoralism, identity and
migration. What connects
all of these
anthropological

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explorations is a close focus on processes of identification and conflict at the level of particular actors in relation to the behaviour of large aggregates of

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people and to systemic
conditions.

Brewing Microbiology
discusses the microbes
that are essential to
successful beer production
and processing, and the

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ways they can pose hazards in terms of spoilage and sensory quality. The text examines the properties and management of these microorganisms in brewing, along with tactics for

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reducing spoilage and
optimizing beer quality.
It opens with an
introduction to beer
microbiology, covering
yeast properties and
management, and then

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delves into a review of
spoilage bacteria and
other contaminants and
tactics to reduce
microbial spoilage. Final
sections explore the
impact of microbiology on

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the sensory quality of
beer and the safe
management and
valorisation of brewing
waste. Examines key
developments in brewing
microbiology, discussing

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the microbes that are
essential for successful
beer production and
processing Covers spoilage
bacteria, yeasts, sensory
quality, and
microbiological waste

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management Focuses on
developments in industry
and academia, bringing
together leading experts
in the field

"The book contains twenty
three chapters written by

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experts on the subject is structured in two parts: the first one describes the role of the latest developments in analytical and bioanalytical techniques, and the second

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one deals with the most innovative applications and issues in food analysis. The two first introductory chapters about sampling technique, from basic one to the most

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recent advances, which is still a food challenge because is responsible of the quality and assurance of the analysis, and on data analysis and chemometrics are followed

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by a review of the most recently applied techniques in process (online) control and in laboratories for the analysis of major or minor compounds of food. These

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techniques ranged from the non-invasive and non-destructive ones, such as infrared spectroscopy, magnetic resonance and ultrasounds, to emerging areas as nanotechnology,

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biosensors and electronic
noses and tongues,
including those already
well-established in food
analysis, such as
chromatographic
and electrophoretic

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techniques. These chapters also include two important tools for solving problems in chemical and biological analysis such as mass spectrometry and molecular-based techniques"--

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This book analyses
diasporic literatures
written in Indian
languages written by
authors living outside
their homeland and
contextualize the

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understanding of migration
and migrant identities.

Examining diasporic
literature produced in
Bengali, Hindi, Malayalam,
Indian Nepali, Odia,
Punjabi, Marathi, and

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Tamil, the book argues that writers in the diaspora who choose to write in their vernacular languages attempt to retain their native language, for they believe

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that the loss of the
language would lead to the
loss of their culture. The
author answers seminal
questions including: How
are these writers
different from mainstream

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Indian writers who write in English? Themes and issues that could be compared to or contrasted with the diasporic literatures written in English are also explored.

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The book offers a significant examination of the nature and dynamics of the multilingual Indian society and culture, and its global readership. It is the first book on

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Indian diasporic
literature in Indian and
transnational languages,
and a pioneering
contribution to the field.
The book will be of
interest to academics in

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the field of South Asian
Studies, South Asian
literature, Asian
literature, diaspora and
literary studies.
Managing Microbes,
Ensuring Quality and

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Valorising Waste

A Hybrid Approach for

Power Plant Fault

Diagnostics

Redesigning the Future of

Humanity--One Gene at a

Time

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A Practical Guide

Molecular Markers in
Mycology

Workshop on Rebuilding
Abalone Stocks in British
Columbia

Statistical techniques have

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assumed an integral role in both the interpretation and quality assessment of analytical results. In this book the range of statistical methods available for such tasks are described in detail,

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with the advantages and disadvantages of each technique clarified by use of examples. With a focus on the essential practical application of these techniques the book also includes sufficient theory

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to facilitate understanding of the statistical principles involved. Statistical Treatment of Analytical Data is written for professional analytical chemists in industry, government and research

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institutions who require a practical understanding of the application of statistics in day to day activities in the analytical laboratory. It is also for students who require further and detailed

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information that may not be available directly in a typical undergraduate course.

Dairy foods account for a large portion of the Western diet, but due to the potential diversity of their sources, this

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food group often poses a challenge for food scientists and their research efforts. Bringing together the foremost minds in dairy research, Handbook of Dairy Foods Analysis, Second Edition,

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compiles the top dairy analysis techniques and methodologies from around the world into one well-organized volume. Exceptionally comprehensive in both its detailing of methods and the range of dairy

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products covered, this handbook includes tools for analyzing chemical and biochemical compounds and also bioactive peptides, prebiotics, and probiotics. It describes noninvasive

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chemical and physical sensors and starter cultures used in quality control. This second edition includes four brand-new chapters covering the analytical techniques and methodologies for determining

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bioactive peptides, preservatives, activity of endogenous enzymes, and sensory perception of dairy foods, and all other chapters have been adapted to recent research. All other chapters

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have been thoroughly updated.
Key Features: Explains
analytical tools available for
the analysis of the chemistry
and biochemistry of dairy
foods Covers a variety of dairy
foods including milk, cheese,

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butter, yogurt, and ice cream
Analysis of nutritional quality
includes prebiotics, probiotics,
essential amino acids,
bioactive peptides, and healthy
vegetable-origin compounds
Includes a series of chapters

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on analyzing sensory qualities, including color, texture, and flavor. Covering the gamut of dairy analysis techniques, the book discusses current methods for the analysis of chemical and nutritional

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compounds, and the detection of microorganisms, allergens, contaminants, and/or other adulterations, including those of environmental origin or introduced during processing. Other methodologies used to

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evaluate color, texture, and
flavor are also discussed.

Written by an international
panel of distinguished
contributors under the
editorial guidance of renowned
authorities, Fidel Toldrá and

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Leo M.L. Nollet, this handbook is one of the few references that is completely devoted to dairy food analysis - an extremely valuable reference for those in the dairy research, processing, and manufacturing

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industries.

An international Workshop on Rebuilding Abalone Stocks in British Columbia was held during February 23-26 , 1999, in Nanaimo, British Columbia, Canada. The main goal of the

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workshop was to develop a realistic strategy to rehabilitate depleted northern (pinto) abalone, *Haliotis kamtschatkana*, stocks in British Columbia. The workshop was also meant to

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clarify the roles, expectations,
and shared interests of many
of the interest groups in
British Columbia, emphasizing
the key role in the rebuilding
plan of local
communities, including First

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Nations and non-native
communities.

A comprehensive two- volume
set that describes the science
and technology involved in the
production and analysis of
alcoholic beverages. At the

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heart of all alcoholic beverages is the process of fermentation, particularly alcoholic fermentation, whereby sugars are converted to ethanol and many other minor products. The Handbook

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of Alcoholic Beverages tracks the major fermentation process, and the major chemical, physical and technical processes that accompany the production of the world's most familiar

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alcoholic drinks. Indigenous beverages and small-scale production are also covered to a significant extent. The overall approach is multidisciplinary, reflecting the true nature of the subject. Thus, aspects of

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biochemistry, biology
(including microbiology),
chemistry, health science,
nutrition, physics and
technology are all necessarily
involved, but the emphasis is
on chemistry in many areas of

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the book. Emphasis is also on more recent developments and innovations, but there is sufficient background for less experienced readers. The approach is unified, in that although different beverages

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are dealt with in different chapters, there is extensive cross-referencing and comparison between the subjects of each chapter. Divided into five parts, this comprehensive two-volume

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work presents:

INTRODUCTION,
BACKGROUND AND

HISTORY: A simple
introduction to the history and
development of alcohol and
some recent trends and

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developments, FERMENTED
BEVERAGES: BEERS,
CIDERS, WINES AND
RELATED DRINKS: the latest
innovations and aspects of the
different fermentation
processes used in beer, wine,

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cider, liquer wines, fruit wines, low-alcohol and related beverages. SPIRITS: cover distillation methods and stills used in the production of whisky, cereal- and cane-based spirits, brandy, fruit spirits

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and liquers ANALYTICAL
METHODS: covering the
monitoring of processes in the
production of alcoholic
beverages, as well as sample
preparation, chromatographic,
spectroscopic,

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electrochemical, physical,
sensory and organoleptic
methods of analysis.

NUTRITION AND HEALTH
ASPECTS RELATING TO
ALCOHOLIC BEVERAGES:
includes a discussion on

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nutritional aspects, both macro- and micro-nutrients, of alcoholic beverages, their ingestion, absorption and catabolism, the health consequences of alcohol, and details of the additives and

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residues within the various
beverages and their raw
materials.

Intelligent Agrifood Chains
and Networks

A Colour Guide

Identity and Symbolic

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Interaction

Indian Literatures in Diaspora
Identification and Registration
Practices in Transnational
Perspective
An Empirical Study on
Christian-Muslim Relations in

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the Philippines

*A guide to the interface between
forensic anthropology and the
United States legal system
Designed for forensic
anthropologists at all levels of
expertise, Forensic Anthropology*

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and the United States Judicial System offers a comprehensive examination of how to effectively present osteological analyses, research and interpretations in the courtroom. Written by noted experts, the book contains an

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historical perspective of the topic, a review of current legislation that affects expert testimony as well as vital information on courtroom procedure and judicial expectation of experts. A comprehensive book, Forensic Anthropology and the

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United States Judicial System explains how to prepare case reports and offers suggestions for getting ready for pre-trial interviews. The book also includes detailed information on affidavits, fee structures and dealing with

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opposing experts. This book is part of the popular Wiley – American Association for Forensic Sciences series and: Offers a unique volume that addresses the interface between forensic anthropology and the legal system Contains detailed

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guidelines for expert testimony by forensic anthropologists with all levels of experience, from beginner to expert Includes information from the perspective of the Judiciary in terms of process and expectations of the Court Shows how to maintain

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*independence from, and
collaborate with other experts
Presents detailed explanations of
current legislation impacting
forensic science Forensic
Anthropology and the United States
Judicial System is an information-*

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filled guide for practitioners of the rapidly growing field that integrates forensic sciences and the judicial system.

The Engineering Group of the Geological Society Working Party brought together experts in glacial

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*and periglacial geomorphology,
Quaternary history, engineering
geology and geotechnical
engineering to establish best
practice when working in former
glaciated and periglaciated
environments. The Working Party*

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addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years

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of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and

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photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership.

The volume 3 of this series is designed to present educators with

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current research and emerging issues in teaching, learning and motivation in a multicultural context. The book is separated into four sections. In the introduction section we have outlined some of the current issues and recent thoughts

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*about the nature of learning,
teaching, and school reforms from
a multicultural perspective.*

*The International Conference on E-
Democracy and Open Government
Asia 2018 (CeDEM Asia 2016)
follows the success of eleven*

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*previous conferences in Europe
and three in Asia, and was hosted
this year in Yokohama, Japan, from
July 12th to 13th.*

Group Processes

*The Fusarium Laboratory Manual
Dynamics of Identification and*

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Conflict

*Statistical Treatment of Analytical
Data*

*Geomaterials Under the
Microscope*

People, Papers and Practices

Youth Ethnic and National

Identity in Bosnia and Herzegovina is an interdisciplinary effort to position and describe the contested nature of state and ethnic identity among youth in Bosnia and

**Herzegovina by providing
empirical, first-hand
evidence on identity
structure and the
subsequent implications for
inter-group relations.
Biology of Plant**

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**Metabolomics is an exciting
new volume in Wiley-
Blackwell's highly
successful Annual Plant
Reviews series.
Concentrating on the
biology and biological**

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**relevance of plant
metabolomics, each
chapter, written by internat
ionally-acknowledged
experts in the field from at
least two different research
groups, combines a review**

of the existing biological results with an extended assessment of possible future developments and the impact that these will have on the type of research needed for the future.

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Following a general introduction, this exciting volume includes details of metabolomics of model species including Arabidopsis and tomato. Further chapters provide in-

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depth coverage of abiotic stress, data integration, systems biology, genetics, genomics, chemometrics and biostatistics.

Applications of plant metabolomics in food

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**science, plant ecology and
physiology are also
comprehensively covered.
Biology of Plant
Metabolomics provides
cutting edge reviews of
many major aspects of this**

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new and exciting subject. It is an essential purchase for plant scientists, plant geneticists and physiologists. All libraries in universities and research establishments where

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**biological sciences are
studied and taught should
have a copy of this Annual
Plant Reviews volume on
their shelves.**

**The packaging closure is
the primary interface**

between the product and the customer. Closures have undergone much evolution and development in recent years. The basic function of a closure is to allow easy access to a packaged

product and to reclose the package, when the contents are not used fully in a single serve. However, closures are now expected to deliver a wide variety of additional functions, such

**as ensuring that the
package has not been
opened prior to the first
opening by the consumer,
facilitating the dispensing
of the product (especially
for food and**

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**pharmaceuticals) and
supporting the brand equity
value of the product. This
volume considers the
technologies relevant to
packaging closures and
sealing systems, structured**

by types of pack. It is directed at packaging technologists, those involved in the design and development of packaging and those who specify or purchase packaging.

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This collection examines the subject of identification and surveillance from 16th C English parish registers to 21st C DNA databases. The contributors, who range from historians to

legal specialists, provide an insight into the historical development behind such issues as biometric identification, immigration control and personal data use.

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**Computational Linguistics:
Concepts, Methodologies,
Tools, and Applications
Blackwell Handbook of
Social Psychology
Psychological Science in
the Courtroom**

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**Language, Education and
Uyghur Identity in Urban
Xinjiang**
**Handbook of Wood
Chemistry and Wood
Composites**
Beyond Common Sense

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addresses the many important and controversial issues that arise from the use of psychological and social science in the courtroom. Each chapter identifies areas of scientific agreement and

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***disagreement, and discusses
how psychological science
advances our understanding of
human behavior beyond
common sense. Features
original chapters written by
some of the leading experts in***

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***the field of psychology and law
including Elizabeth Loftus,
Saul Kassin, Faye Crosby, Alice
Eagly, Gary Wells, Louise
Fitzgerald, Craig Anderson,
and Phoebe Ellsworth The 14
issues addressed include***

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***eyewitness identification,
gender stereotypes, repressed
memories, Affirmative Action
and the death penalty
Commentaries written by
leading social science and law
scholars discuss key legal and***

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scientific themes that emerge from the science chapters and illustrate how psychological science is or can be used in the courts

The book covers current developments in the field of

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expert applications and security, which employ advances of next-generation communication and computational technology to shape real-world applications. It gathers selected research

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***papers presented at the
ICETEAS 2018 conference,
which was held at Jaipur
Engineering College and
Research Centre, Jaipur, India,
on February 17-18, 2018. Key
topics covered include expert***

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applications and artificial intelligence; information and application security; advanced computing; multimedia applications in forensics, security and intelligence; and advances in web technologies:

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***implementation and security
issues.***

***Instrumental measurements of
the sensory quality of food and
drink are of growing
importance in both
complementing data provided***

by sensory panels and in providing valuable data in situations in which the use of human subjects is not feasible. Instrumental assessment of food sensory quality reviews the range and use of

***instrumental methods for
measuring sensory quality.
After an introductory chapter,
part one goes on to explore the
principles and practice of the
assessment and analysis of
food appearance, flavour,***

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texture and viscosity. Part two reviews advances in methods for instrumental assessment of food sensory quality and includes chapters on food colour measurement using computer vision, gas

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chromatography-olfactometry (GC-O), electronic noses and tongues for in vivo food flavour measurement, and non-destructive methods for food texture assessment. Further chapters highlight in-mouth

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*measurement of food quality
and emerging flavour analysis
methods for food
authentication. Finally,
chapters in part three focus on
the instrumental assessment of
the sensory quality of*

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particular foods and beverages including meat, poultry and fish, baked goods, dry crisp products, dairy products, and fruit and vegetables. The instrumental assessment of the sensory quality of wine, beer,

***and juices is also discussed.
Instrumental assessment of
food sensory quality is a
comprehensive technical
resource for quality managers
and research and development
personnel in the food industry***

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***and researchers in academia
interested in instrumental food
quality measurement. Reviews
the range and use of
instrumental methods for
measuring sensory quality
Explores the principles and***

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***practice of the assessment and
analysis of food appearance,
flavour, texture and viscosity
Reviews advances in methods
for instrumental assessment of
food sensory quality
The Fusarium Laboratory***

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Manual John Wiley & Sons
Concepts, Methodologies,
Tools, and Applications
Wood Quality and its
Biological Basis
CeDEM Asia 2018
Biogeochemistry of Marine

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Systems

***Handbook of Modern
Pharmaceutical Analysis
Packaging Closures and
Sealing Systems***

***This book examines identity
theory's centrality within***

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***social psychology and its
foundations within
structural symbolic
interaction, highlighting its
links not only to other
prominent sociological
subfields, but also to other***

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***theoretical perspectives
within and beyond
sociology. The book
provides a synthetic
overview outlining the
intellectual lineage of
identity theory within***

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***structural symbolic
interactionism, and how the
“Indiana School” of identity
theory and research,
associated especially with
Sheldon Stryker, relates to
other symbolic***

interactionist traditions within sociology. It also analyses the latest developments in response to the push to integrate identity theory, which initially focused on role

identities, with the study of personal, group and social identities. Further, it discusses the relationship between identity theory and affect control theory, providing a sense of the

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many substantive topics within sociology beyond social psychology for which the study of identity has important, sometimes underappreciated implications. The book

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***concludes with a chapter
summarizing the
interrelated lessons
learned while also
reflecting on remaining key
questions and challenges
for the future development***

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***of identity theory.
The Kingdom fungi
encompass a massive
diversity of taxa with wide-
ranging ecologies, life
cycles, and morphologies
ranging from unicellular***

aquatic chytrids to large mushrooms. Before molecular methods came in existence, taxonomists considered this Kingdom to be a member of the plant kingdom due to certain life

styles like immobility and growth habitats. Molecular markers (also known as DNA markers), facilitated a better alternative method over traditional morphological methods,

employed for the identification, characterization, and to understand the evolution of fungi. The morphological methods used for identification are mainly

***dependent on spore color
or microscopic features
whereas molecular markers
are based on DNA
polymorphism in the
genomic organization.
Phylogenetic studies***

***reported in last decade,
based on molecular
markers, have reshaped the
classification system of
Kingdom fungi, which
divided into one
subkingdom, seven phyla,***

and ten subphyla. Recent advances in molecular mycology have opened the way for researchers to identify and characterize novel fungal species from unique environments.

Mycology is concerned with the systematic study of fungi, including their genetic and biochemical properties, their use to humans as a source of medicine and food, as well

as their dangers, such as poisoning and infections. In the 21st century with the development of DNA sequencing technologies and phylogenetic analysis based on molecular

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***markers, new insights into
fungal taxonomy were
provided. This book
contains a thorough
discussion of molecular
characterization and
detection of different***

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***groups of fungi by using
PCR-based markers and
provides a comprehensive
view of the applications
and uses of different
molecular markers in
molecular mycology. It also***

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***addresses the recent
molecular markers
employed to solve the
problems of identification
and discusses current
approaches used in
molecular characterization***

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***and detection of fungi.
The first comprehensive
guide to the petrography of
geomaterials, making the
petrographers specialist
knowledge available to
practitioners, educators***

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***and students worldwide
interested in modern and
historic construction
materials.***

***This study focuses on the
latent aspects of an ethno-
religious conflict,***

describing why and how people avoid contact with 'out-groups.' Their contact avoidance is largely based on the notion of power. The book shows how contact avoidance towards out-

groups is related to people's ethno-religious identification. This is explained by various factors, such as a perceived group threat, out-group distrust, fundamentalism,

quantity of contact, and direct experiences of violence. Finally, the book illustrates how education, mass media, and the history of conflict are related with intergroup

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***contact avoidance. (Series:
Nijmegen Studies in
Development and Cultural
Change (NICCOS) - Vol. 50)
[Subject: Religious Studies,
Christianity, Islamic
Studies, Asian Studies]***

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***Forensic Anthropology and
the United States Judicial
System
Teaching, Learning, and
Motivation in a
Multicultural Context
Genetics Abstracts***

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***Ethno-religious
Identification and
Intergroup Contact
Avoidance
Evolving Ourselves
Social Science Approaches***

Wood is the most versatile

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raw material available to man. It is burned as fuel, shaped into utensils, used as a structural engineering material, converted into fibres for paper production, and put to newer uses as a source of

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industrial chemicals. Its quality results largely from the chemical and physical structure of the cell walls of its component fibres, which can be modified in nature as the tree responds to physical

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environmental stresses.
Internal stresses can
accumulate, which are
released catastrophically
when the tree is felled,
often rendering the timber
useless. The quality of
timber as an engineering

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material also depends on the structure of the wood and the way in which it has developed in the living tree. Tree improvement for quality cannot be carried out without an understanding of the biological basis

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underlying wood formation and structure. This volume brings together the viewpoints of both biologists and physical scientists, covering the spectrum from the formation of wood to its structure and properties,

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and relating these properties to industrial use. This is a volume for researchers and professionals in plant physiology, molecular biology and biochemistry. Plant diseases are destructive and threaten

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virtually any crop grown on a commercial scale. They are kept in check by plant breeding strategies that have introgressed disease resistance genes into many important crops, and by the deployment of costly control

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measures, such as antibiotics and fungicides. However, the capacity for the agents of plant disease - viruses, bacteria, fungi, and oomycetes - to adapt to new conditions, overcoming disease resistance and

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becoming resistant to pesticides, is very great. For these reasons, understanding the biology of plant diseases is essential for the development of durable control strategies. Plant-Pathogen Interactions

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provides and overview of our
current knowledge of plant-
pathogen interactions and
the establishment of plant
disease, drawing together
fundamental new information
on plant infection
mechanisms and host

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responses. The role of molecular signals, gene regulation, and the physiology of pathogenic organisms are emphasized, but the role of the prevailing environment in the conditioning of disease

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is also discussed.

Emphasizing the broader understanding that has emerged from the use of molecular genetics and genomics, Plant-Pathogen Interactions highlights those interactions that have

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been most widely studied and those in which genome information has provided a new level of understanding.

Freshwater Algae:
Identification and Use as
Bioindicators provides a
comprehensive guide to

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temperate freshwater algae, with additional information on key species in relation to environmental characteristics and implications for aquatic management. The book uniquely combines practical

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material on techniques and water quality management with basic algal taxonomy and the role of algae as bioindicators. Freshwater Algae: Identification and Use as Bioindicators is divided into two parts. Part

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I describes techniques for the sampling, measuring and observation of algae and then looks at the role of algae as bioindicators and the implications for aquatic management. Part II provides the identification of major

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genera and 250 important species. Well illustrated with numerous original illustrations and photographs, this reference work is essential reading for all practitioners and researchers concerned with

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assessing and managing the
aquatic environment.

A Companion to Forensic
Anthropology presents the
most comprehensive
assessment of the
philosophy, goals, and
practice of forensic

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anthropology currently
available, with chapters by
renowned international
scholars and experts.
Highlights the latest
advances in forensic
anthropology research, as
well as the most effective

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practices and techniques used by professional forensic anthropologists in the field Illustrates the development of skeletal biological profiles and offers important new evidence on statistical

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validation of these analytical methods. Evaluates the goals and methods of forensic archaeology, including the preservation of context at surface-scattered remains, buried bodies and fatal fire

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scenes, and recovery and
identification issues
related to large-scale mass
disaster scenes and mass
grave excavation.

Science and application

Freshwater Algae

Beyond Common Sense

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Instrumental Assessment of
Food Sensory Quality
Anthropological Encounters
Guide to Tendrillate
Climbers of Costa Rican
Mountains

*As the regional lingua franca, the
Uyghur language long underpinned*

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Uyghur national identity in Xinjiang. However, since the 'bilingual education' policy was introduced in 2002, Chinese has been rapidly institutionalised as the sole medium of instruction in the region's institutes of education. As a result, studies of the

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bilingual and indeed multi-lingual Uyghur urban youth have emerged as a major new research trend. This book explores the relationship between language, education and identity among the urban Uyghurs of contemporary Xinjiang. It considers

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ways in which Uyghur urban youth identities began to evolve in response to the state imposition of 'bilingual education'. Starting by defining the notion of ethnic identity, the book explores the processes involved in the formation and development of personal

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and group identities, considers why ethnic boundaries are constructed between groups, and questions how ethnic identity is expressed in social, cultural and religious practice. Against this background, contributors adopt a special focus on the relationship

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between language use, education and ethnic identity development. As a study of ethnicity in China this book will be of huge interest to students and scholars of Chinese culture and society, Asian ethnicity, cultural anthropology, sociolinguistics and

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Asian education.

Handbook of Modern Pharmaceutical Analysis, Second Edition, synthesizes the complex research and recent changes in the field, while covering the techniques and technology required for today's laboratories. The work

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integrates strategy, case studies, methodologies, and implications of new regulatory structures, providing complete coverage of quality assurance from the point of discovery to the point of use. Treats pharmaceutical analysis (PA) as an integral partner to the drug

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development process rather than as a service to it Covers method development, validation, selection, testing, modeling, and simulation studies combined with advanced exploration of assays, impurity testing, biomolecules, and chiral separations

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Features detailed coverage of QA, ethics, and regulatory guidance (quality by design, good manufacturing practice), as well as high-tech methodologies and technologies from "lab-on-a-chip" to LC-MS, LC-NMR, and LC-NMR-MS

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For the first time in over 20 years, a comprehensive collection of photographs and descriptions of species in the fungal genus Fusarium is available. This laboratory manual provides an overview of the biology of Fusarium and the techniques involved

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in the isolation, identification and characterization of individual species and the populations in which they occur. It is the first time that genetic, morphological and molecular approaches have been incorporated into a volume devoted to Fusarium

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identification. The authors include descriptions of species, both new and old, and provide protocols for genetic, morphological and molecular identification techniques. The Fusarium Laboratory Manual also includes some of the evolutionary

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biology and population genetics thinking that has begun to inform the understanding of agriculturally important fungal pathogens. In addition to practical “how-to” protocols it also provides guidance in formulating questions and obtaining

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answers about this very important group of fungi. The need for as many different techniques as possible to be used in the identification and characterization process has never been greater. These approaches have applications to fungi other than those

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in the genus Fusarium. This volume presents an introduction to the genus Fusarium, the toxins these fungi produce and the diseases they can cause. "The Fusarium Laboratory Manual is a milestone in the study of the genus Fusarium and will help

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*bridge the gap between morphological
and phylogenetic taxonomy. It will be
used by everybody dealing with
Fusarium in the Third Millenium.”*

*--W.F.O. Marasas, Medical Research
Council, South Africa*

This book provides a hybrid approach

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to fault detection and diagnostics. It presents a detailed analysis related to practical applications of the fault detection and diagnostics framework, and highlights recent findings on power plant nonlinear model identification and fault diagnostics.

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The effectiveness of the methods presented is tested using data acquired from actual cogeneration and cooling plants (CCPs). The models presented were developed by applying Neuro-Fuzzy (NF) methods. The book offers a valuable resource for researchers and

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practicing engineers alike.

*Annual Plant Reviews, Biology of Plant
Metabolomics*

Handbook of Dairy Foods Analysis

Emerging Trends in Expert

Applications and Security

Proceedings of the International

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*Conference for E-Democracy and
Open Government ; Japan 2018*

Plant-pathogen Interactions

Brewing Microbiology

*Marine systems vary in their
sensitivities to*

perturbation. Perturbation may be

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*insidious – such as
increasing eutrophication of coastal
areas – or it may be dramatic – such as
a response to an oil spillage or some
other accident. Climate change may
occur incrementally or it may
be abrupt, and ecosystem resilience is*

likely to be a complex function of the interactions of those assemblages or species mediating key biogeochemical processes. Biogeochemistry of Marine Systems considers issues of marine system resilience, focusing on a range of marine systems that exemplify

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major global province types but are also interesting and topical in their own right, on account of their sensitivity to natural or anthropogenic change or their importance as ecological service providers. Authors concentrate on advances of the last decade.

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In a globalized society, effective communication is critical, and study of language from a mathematical perspective can shed light on new ways in which to express meaning across cultures and nations. Computational Linguistics: Concepts, Methodologies,

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Tools, and Applications explores language by dissecting the phonemic aspects of various communication systems in order to identify similarities and pitfalls in the expression of meaning. With applications in a variety of areas, from

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psycholinguistics and cognitive science to computer science and artificial intelligence, this multivolume reference work will be of use to researchers, professionals, and educators on the cutting edge of language acquisition and

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communication science.

Climbers, such as lianas and vines, are important constituents of tropical forests and perhaps the single most important physiognomic characteristic differentiating tropical from temperate forests, occurring on nearly

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50% of forest trees in Central and South America. Despite their widespread nutritional and medicinal use, lianas remain poorly understood ecologically. Tendrillate Climbers offers comprehensive coverage of all of the tendrillate lianas of Costa Rica

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*and most of the tendrillate lianas of
Central America. This unique
reference provides Excellent keys to
families and separate keys to genera
and species State-of-the-art
nomenclature and lists of synonymy
when other scientific names have been*

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published or used informally Each species illustrated by the author's hand-drawn line art An invaluable addition to our understanding of tropical forests, the book offers new information as well as information brought together from dispersed

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publications and unpublished lists and reports. In these times of habitat fragmentation and species loss, this data is a significant contribution to the biological research that is thriving in Central America, especially Costa Rica. Tendrillate Climbers fills a

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major gap in the botanical literature. Its high level of scholarship and comprehensive coverage will astonish the tropical botanists, forestry scientists, ecologists, biologists, and horticulturalists who will want it as a reference for their continued work on

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this neglected group of plants.

Food has a fundamental position in society, ensuring health, happiness and political stability. Consequently, the management of food chains and networks is one of the most important aspects of the modern food industry.

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Yet food is difficult to handle along long supply chains, with a limited window for storage and handling time, and the risk of spoiling if incorrectly handled or processed. These issues can lead to logistical problems that can severely affect product quality and

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freshness. Intelligent Agrifood Chains and Networks offers a timely discussion of the current state of food logistics, and indicates the major ICT problems that can occur during production, warehousing, transportation and retailing. Emphasis

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is given to new technologies and intelligent systems that are able to process time-dependent information, handle emergencies, and support logistics operations in food management. In particular, the authors show how telematics and

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RFID can be implemented in the supply chain. The book also includes real-life case studies, in which actual food logistics problems and their solutions are presented, demonstrating how systemic and logistics approaches may be combined. The book is directed

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at academics, researchers, and students seeking the necessary background in terms of the interplay between the food supply chain and ICT. Its comprehensive review of current issues in the food supply chain will be of interest to managers and

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technicians working in the food industry, while its technological focus will be invaluable to food scientists and technologists working in research and industry environments.

*Chemical Analysis of Food:
Techniques and Applications*

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***Engineering Group Working Party
Report***

***Technical, Analytical and Nutritional
Aspects***

Proceedings of ICETEAS 2018

***Deepening Foundations, Building
Bridges***

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*Strength and Conditioning for Young
Athletes*