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The book
discusses the
underlying physical
principles of
piezoelectric
materials,
important

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properties of ferroelectric/piezoelectric materials used in today's transducer technology, and the principles used in transducer design. It provides examples of a wide range of applications of such materials

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along with the appertaining rationales. With contributions from distinguished researchers, this is a comprehensive reference on all the pertinent aspects of piezoelectric materials.

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Life-Cycle

Assessment of
Biorefineries, the
sixth and last book
in the series on bio
mass-biorefineries
discusses the
unprecedented
growth and
development in the
emerging concept
of a global bio-

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based economy in which biomass-based biorefineries have attained center stage for the production of fuels and chemicals. It is envisaged that by 2020 a majority of chemicals currently being

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produced through a chemical route will be produced via a bio-based route. Agro-industrial residues, municipal solid wastes, and forestry wastes have been considered as the most significant

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feedstocks for such bio-refineries. However, for the techno-economic success of such biorefineries, it is of prime and utmost importance to understand their lifecycle assessment for various aspects.

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Provides state-of-art information on the basics and fundamental principles of LCA for biorefineries
Contains key features for the education and understanding of integrated biorefineries

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Presents models
that are used to
cope with land-use
changes and their
effects on

biorefineries

Includes relevant
case studies that
illustrate main
points

A collection of data
from various

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sources on the
biochemistry,
technology and
economics of the
production of
lipids, presented in
a form which
allows readers to
draw their own
conclusions
regarding the
applicability of this

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technology to their own circumstances.

An acid that is stronger than the acid strength of 100% sulfuric acid is known as a superacid.

Environmental concerns about the use of toxic

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liquid superacids and liquid inorganic acids in the transformation of hydrocarbons provide an impetus for a search of stable and more environmentally friendly solid acid catalysts. This new book examines an

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important
opportunity related
to green chemistry
where solid
superacids lead to
new gas- and
liquid-solid phase
reactions, which
are
environmentally
benign processes
in the chemical

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industry.nursing
education.

Green Materials
for Wastewater
Treatment

Biobased
Surfactants

1000 Inventions
and Discoveries

A Novel

Mycoremediation
and Environmental

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Sustainability
Handbook of
Herbs and Spices

**An authoritative
account of the
application of
fungi to the
treatment of
environmental
pollution.
Summarizes one
thousand notable**

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**inventions and
discoveries of
ancient and
modern times,
from 3,000,000
B.C. to the
beginning of the
twenty-first
century A.D.
This manual is
organized as a
reference for**

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**snipers and leads
the trainer
through the
material needed
to conduct sniper
training. Subjects
include
equipment,
weapon
capabilities,
fundamentals of
marksmanship**

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**and ballistics,
field skills,
mission planning,
and skill
sustainment.**

**The second
edition of this
invaluable
handbook covers
converting
vegetable oils,
animal fats, and**

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**used oils into
biodiesel fuel.
The Biodiesel
Handbook
delivers solutions
to issues
associated with
biodiesel
feedstocks,
production
issues, quality
control, viscosity,**

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**stability,
applications,
emissions, and
other
environmental
impacts, as well
as the status of
the biodiesel
industry
worldwide.
Incorporates the
major research**

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**and other
developments in
the world of
biodiesel in a
comprehensive
and practical
format Includes
reference
materials and
tables on
biodiesel
standards, unit**

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**conversions, and
technical details
in four
appendices
Presents details
on other uses of
biodiesel and
other alternative
diesel fuels from
oils and fats
Microbial and
Algal Oils**

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**Chemometrics
Biological
Activity of
Natural Products
Sniper Training**

**The Biodiesel
Handbook**

Biobased Surfactants:
Synthesis, Properties,
and Applications,
Second Edition,

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covers biosurfactant synthesis and applications and demonstrates how to reduce manufacturing and purification costs, impurities, and by-products. Fully updated, this book covers surfactants in biomedical applications, detergents, personal

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care, food, pharmaceuticals, cosmetics, and nanotechnology. It reflects on the latest developments in biobased surfactant science and provides case scenarios to guide readers in efficient and effective biobased surfactant application, along

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with strategies for research into new applications. This book is written from a biorefinery-based perspective by an international team of experts and acts as a key text for researchers and practitioners involved in the synthesis, utilization, and

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development of
biobased surfactants.
Describes new and
emerging biobased
surfactants and their
synthesis and
development
Showcases an
interdisciplinary
approach to the topic,
featuring applications
to chemistry,
biotechnology,

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biomedicine, and
other areas Presents
the entire lifecycle of
biobased surfactants
in detail

This ACS Symposium
Series book evolved
from the ACS
symposium "Food
Additives and
Packaging" sponsored
by the Division of
Agricultural and Food

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Chemistry (AGFD) at
the 245th ACS
National Meeting &
Exposition in New
Orleans, LA, April
7-11, 2013. The book
helps readers
understand the rules
and regulations
governing the use of
food additives and
food packaging
materials in the U.S.

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and globally.

Furthermore, the book investigates novel materials and applications related to food additives and food packaging materials and explores concerns, issues, and current events in the field. The book particularly highlights global regulations,

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research,
development,
applications, and
evaluation of food
additives and food
packaging materials.
These areas are
dynamic, constantly
changing, and
expected to attract the
interest of a broad and
diverse readership.

Part I of this book

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highlights how food additives and packaging materials are classified and regulated in different parts of the world and addresses some of the scientific, legal, and practical issues related to these regulations from the perspective representatives. It contains monographs

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on general aspects of regulatory processes in various countries (U.S., EU, Thailand and Japan) and specific aspects, such as GRAS substances, color additives, enzymes, flavorings, safety assessments, and the National Environmental Policy Act (NEPA). Part II

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presents some current topics related to the research, development, applications, and evaluation of food additives and food packaging materials, with monographs on applying regulatory knowledge for packaging compliance and evaluating food

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packaging for pre-packaged irradiated food, and on various emerging technologies, such as a control release packaging system and high pressure processing that can improve the appearance, texture, taste, or shelf-life of food; it also includes

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monographs that discuss other aspects, such as bisphenol A, PET packaging materials, nanomaterials, and biomaterials.

Strengthen Your Back covers all practical aspects of back care from diagnosis and treatment to exercises and pain relief.

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Illustrated step-by-step exercises help you address your back and neck pain, alongside carefully planned strategies to stop injuries recurring. Simple, clear diagrams show the anatomy of your back and neck and specialized sections deal with back pain in

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specific scenarios
such as home, work,
driving and gardening.
Includes advice on
where to seek help
and how to get the
best results from
rehabilitation. Play an
active role in your
healthcare with
Strengthen Your
Back!

Herbs and spices are

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among the most versatile ingredients in food processing, and alongside their sustained popularity as flavourants and colourants they are increasingly being used for their natural preservative and potential health-promoting properties.

An authoritative new

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edition in two volumes, Handbook of herbs and spices provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices. Volume 1 begins with an introduction to herbs

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and spices, discussing their definition, trade and applications. Both the quality specifications for herbs and spices and the quality indices for spice essential oils are reviewed in detail, before the book goes on to look in depth at individual herbs and spices, ranging from

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basil to vanilla. Each chapter provides detailed coverage of a single herb or spice and begins by considering origins, chemical composition and classification. The cultivation, production and processing of the specific herb or spice is then discussed in detail, followed by

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analysis of the main uses, functional properties and toxicity. With its distinguished editor and international team of expert contributors, the two volumes of the new edition of Handbook of herbs and spices are an essential reference for manufacturers using

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herbs and spices in their products. They also provide valuable information for nutritionists and academic researchers. Provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs

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and spices Begins
with a discussion of
the definition, trade
and applications of
herbs and spices
Reviews the quality
specifications for
herbs and spices and
examines the quality
indices for spice
essential oils
Modern Analytical
Chemistry

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Strengthen Your Back

Volume 3

1,000 Inventions &

Discoveries

Advanced Grammar

in Use with Answers

New Paradigm in

Membrane Separation

Processes

Global

Logistics and

Supply Chain

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Management is

a

comprehensive,

fully up-to-

date

introduction

to the

subject.

Addressing

both practical

and strategic

perspectives,

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this revised
and updated
fourth edition
offers readers
a balanced and
integrated
presentation
of Logistics
and Supply
Chain

Management (LS
CM) concepts,

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practices,
technologies,
and
applications.
Contributions
from experts
in specific
areas of LSCM
provide
readers with
real-world
insights on

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supply chain
relationships,
transport
security,
inventory
management,
supply chain
designs, the
challenges
inherent to
globalization
and

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international
trade, and
more. The text
examines how
information,
materials,
products, and
services flow
across the
public and
private
sectors and

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around the
world.

Detailed case
studies
highlight LSCM
practices and
strategies in
a wide range
of contexts,
from
humanitarian
aid and

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pharmaceutical
supply chains
to semi-
automated
distribution
centers and
port and air
cargo
logistics.

Examples of
LSCM in global
corporations

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such as Dell
Computer and
Jaguar Land
Rover
highlight the
role of new
and emerging
technologies.
This edition
features new
and expanded
discussion of

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contemporary
topics
including sust
ainability,
supply chain
vulnerability,
and reverse
logistics, and
places greater
emphasis on
operations
management.

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For Senior-
level and
graduate
courses in
Biochemical
Engineering,
and for
programs in
Agricultural
and Biological
Engineering or
Bioengineering

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. This concise yet comprehensive text introduces the essential concepts of bioprocessing-internal structure and functions of different

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types of micro
organisms,
major
metabolic
pathways,
enzymes,
microbial
genetics,
kinetics and
stoichiometry
of growth and
product

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information-to
traditional
chemical
engineers and
those in
related
disciplines.
It explores
the
engineering
principles
necessary for

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bioprocess
synthesis and
design, and
illustrates
the
application of
these
principles to
modern
biotechnology
for production
of pharmaceuti

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calls and
biologics,
solution of
environmental
problems,
production of
commodities,
and medical
applications.
This text
relies on only
introductory

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level physics
and chemistry
as the
foundation for
understanding
liquid crystal
science.

Liquid
crystals
combine the
material
properties of

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solids with
the flow
properties of
fluids. As
such they have
provided the
foundation for
a revolution
in low- power,
flat-panel
display
technology

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LCDs. In this book, the essential elements of liquid crystal science are introduced and explained from the perspectives of both the chemist and

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the

physicist.;

The text

begins with an

historical

account of the

discovery of

liquid

crystals and

continues with

a description

of how

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different
phases are
generated and
how different
molecular
architectures
affect liquid
crystalline
properties.
The rest of
the book is
concerned with

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understanding
and explaining
the properties
of the various
types of
liquid
crystals, and
in the final
part of the
book, the
technology of
LCDs is

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discussed and
illustrated.

Volume 3

covers recent
research with
expanded
coverage on
this important
area of
remediation. M
ycoremediation
is the form of

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bioremediation
in which fungi-
based
technology is
used to
decontaminate
the
environment.
Fungi are
among the
primary
saprotrophic

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organisms in an ecosystem, as they are efficient in the decomposition of organic matter. Wood-decay fungi, especially white rot, secretes

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extracellular enzymes and acids that break down lignin and cellulose.

Fungi have been proven to be a very cost-effective and environmentally friendly way

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for helping to
remove a wide
array of
toxins from
damaged
environments
or wastewater.
These toxins
include heavy
metals,
persistent
organic

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pollutants,
textile dyes,
leather
tanning
industry
chemicals and
wastewater,
petroleum
fuels,
polycyclic
aromatic
hydrocarbon, p

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harmaceuticals
and personal
care products,
pesticides and
herbicides, in
land, fresh
water and
marine
environments.
Bioremediation
of toxic
organics by

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fungi is the most sustainable and green route for cleanup of contaminated sites and we discuss the multiple modes employed by fungi for

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detoxification
of different
toxic and
recalcitrant
compounds
including
prominent
fungal enzymes
viz.,
catalases,
general
lipase,

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laccases,
peroxidases
and sometimes
intracellular
enzymes,
especially the
cytochrome
P450 monooxygenases. Fungi
play an
important role
in the

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biogeochemical
cycling of
manganese and
other redox-
active metals,
which is
related to
their ability
to survive
radiation and
other
oxidative

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challenges.

This book covers recent research with more detail on the various types of fungi and associated fungal processes used to clean up wastes and

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wastewaters in
contaminated
environments,
and discusses
their
potential for
environmental
applications.

Organic

Solvent

Nanofiltration

Data Analysis

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for the
Laboratory and
Chemical Plant
Advanced
Grammar in Use
Introduction
to Liquid
Crystals
Global
Logistics and
Supply Chain
Management

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Food Additives
and Packaging

Modern

Analytical

*Chemistry is a
one-semester
introductory
text that meets
the needs of
all*

instructors.

With coverage

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*in both
traditional
topics and
modern-day
topics,
instructors
will have the
flexibility to
customize their
course into
what they feel
is necessary
for their*

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*students to
comprehend the
concepts of
analytical
chemistry.
Fashion is
everywhere. It
is one of the
main ways in
which we
present
ourselves to
others,*

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*signaling what
we want to
communicate
about our
sexuality,
wealth, profess
ionalism,
subcultural and
political
allegiances,
social status,
even our mood.
It is also a*

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*global industry
with huge
economic,
political and
cultural impact
on the lives of
all of us who
make, sell,
wear or even
just watch fash
ion. Fashion:
the key
concepts*

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Diesel Engine
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*presents a
clear
introduction to
the complex
world of
fashion. The
aim throughout
is to present a
comprehensive
but also
accessible and
provocative
analysis.*

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Readers will discover how the fashion industry is structured and how it thinks, the links between catwalk, celebrity branding, media promotion and mainstream

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*retail, how
clothes mean
different
things in
different parts
of the world,
and how popular
culture
influences
fashion and how
fashion shapes
global culture.
Illustrated*

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Zaraa

*with a wealth
of photographs,
the text is
further
enlivened with
over 30
detailed and
rich case
studies -
ranging across
topics as
diverse as the
meaning of*

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*black in
fashion, the
rise of
celebrity
branding, the
cult of
thinness, the
politics of
veiling, the
eroticism of
shoes and the
power of cosmet
ics.* Features: §

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*Boxed chapter
overviews open
each chapter§
Bullet points
summarizing key
ideas conclude
each chapter§
Chapter
discussions are
illustrated
with integrated
case material§
Each chapter is*

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*supported by
extended Case
Studies§ Key
words are
highlighted in
chapters and
defined in an
extensive
Glossary§
Further Reading
guides the
reader to other
literature§ A*

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*timeline of
Fashion
Milestones
provides a
chronology of
major events in
the history of
fashion*

**NAMED A BEST
BOOK OF THE
YEAR BY
BOOKPAGE AND
LIBRARY JOURNAL**

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*The Crimson
Petal and the
White meets
Fight Club: A
page-turning
novel set in
the world of
female
pugilists and
their patrons
in late eightee
nth-century
England. Moving*

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*from a filthy
brothel to a
fine manor
house, from the
world of street
fighters to the
world of
champions, The
Fair Fight is a
vivid,
propulsive
historical
novel*

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announcing the arrival of a dynamic new talent. Born in a brothel, Ruth doesn't expect much for herself beyond abuse. While her sister's beauty affords a certain degree of

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*comfort, Ruth's
harsh looks set
her on a path
of drudgery.
That is until
she meets
pugilist patron
George Dryer
and discovers
her true callin
g-fighting bare
knuckles in the
prize rings of*

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Bristol. Manor-born Charlotte has a different cross to bear. Scarred by smallpox, stifled by her social and romantic options, and trapped in twisted power games with her

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wastrel

*brother, she is
desperate for
an escape.*

*After a
disastrous,
life-changing
fight sidelines
Ruth, the two
women meet, and
it alters the
perspectives of
both of them.*

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*When Charlotte
presents Ruth
with an
extraordinary
proposition,
Ruth pushes
dainty
Charlotte to
enter the ring
herself and
learn the power
of her own
strength. A*

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*gripping, page-
turning story
about people
struggling to
transcend the
circumstances
into which they
were born and
fighting for
their own
places in
society, The
Fair Fight is a*

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*raucous,
intoxicating
tale of
courage,
reinvention,
and fighting
one's way to
the top.*

*Presented in an
easy-to-read
form, this book
on zeolite
catalysis cover*

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all aspects of the subject. It focuses on synthesis, structure, diffusion, deactivation, and industrial applications. This book is an ideal text for courses on catalysis or as

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Zaraa

*a supplementary
text for those
studying
applied or
industrial
chemistry. It
is also a
useful resource
for anyone who
works with
zeolites as
catalysts in
the laboratory,*

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*pilot plants,
or commercial
installations.*

*Piezoelectric
and Acoustic
Materials for
Transducer*

*Applications
Cereals*

*Processing
Technology*

*A Self-Study
Reference and*

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*Practice Book
for Advanced
Learners of
English
Chemistry and
Physics
Fashion
Bioprocess
Engineering
Featuring
recognized
academic and
industrial experts in*

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this cutting-edge field, this book reviews single cell oils (SCO) currently in the market. The text mainly focuses on the production of the long chain polyunsaturated fatty acids, Arachidonic acid, and Docosaehaenoic

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acid. All chapters provide up to date references for navigating the vast amount of historic data available in the field. The authors provide real world examples of the commercial development and applications of various SCO in a

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variety of fields, from food ingredients and disease treatment to aquaculture and fish farming. It covers the essential information in this fast moving field giving details of the production of all the major SCOs, their extraction,

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purification,
applications and
safety evaluations.
In addition, this new
edition includes
major coverage of
the potential of
SCOs for biofuels
that may be of key
significance in the
coming years.
Includes sufficient
detail on molecular

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breeding of yeasts
and molds Shows
how microbial oils
have gone from
being academic
curiosities to being
minor commodity
oils Presents details
on the safety and
nutrition of single
cell oils for human
and animal nutrition
Cereals processing

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is one of the oldest and most important of all food technologies.

Written by a distinguished international team of contributors, this collection reviews the range of cereal products and the technologies used to produce them. It

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is designed for all those involved in cereals processing, whether raw material producers and refiners needing to match the needs of secondary processors manufacturing the final product for the consumer, or secondary

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processors
benchmarking their
operations against
best practice in their
sector and across
cereals processing
as a whole. The
authorative guide to
key technological
developments within
cereal processing
Reviews the range
of cereal products

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and the technologies used to produce them
Fundamental knowledge of microbial lipids has advanced greatly during the last twenty years, and the microbiological and biochemical communities have long awaited a

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comprehensive
source of reference.
Microbial Lipids,
Volume 2, is the
second part of a two-
volume work which
will be the standard
reference text for
the next decade.
With detailed
contributions by
leading experts, this
authoritative and

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unique book covers the fullest possible range of lipid classes and microorganisms, including excellent sections on the occurrence and function of lipids and the biotechnology of lipids. Bringing the reader up-to-date with current

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knowledge, this book will be indispensable to any scientist and researcher interested in microbial lipids.

Dark. Powerful.

Dangerous James Maxwell is one of the billionaire elites who rules Las Vegas City with an

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iron fist. This is his story. My name is Mia Donovan, a twenty-two-year-old, small-town girl who has signed a contract with the billionaire in exchange for my brother's freedom and protection. My world has changed—both for

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better and worse.
James Maxwell is
the man behind this.
I'm fascinated,
mesmerized by this
charm that binds me
to him, entrapping
me in his embrace.
I've fallen in love
with him, which
hurts because it is
unrequited. What's
worse, my life is at

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risk because I'm too close to the powerful man who has too many enemies. And so our story continues

Entwined with You contains Chained to You: Volumes 3 & 4 of the Chained to You serial. Vegas Billionaires Series: 1 - Chained to You

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[James and Mia
Book 1] 2 -

Entwined with You

[James and Mia

Book 2] 3 - Loved

by You [James and

Mia Book 3] 4 -

Chained by Love

[William and

Savannah]

Keywords: romance

ebook, sexy

romance, steamy

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contemporary
romance, steamy
romance, steamy
billionaire romance,
sexy billionaire
romance

A Self-study
Reference and
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of English with
Answers

The Key Concepts

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Safflower,
Carthamus
Tinctorius L.
Life-Cycle
Assessment of
Biorefineries
The Fair Fight
Sheep and Goat
Production

Ecology and
distribution;
Breeding;
Reproduction;

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Maintenance and growth; Pregnancy; Lactation of suckling ewes and does; Nutritional diseases; Infectious diseases of sheep and goats; Internal parasites of sheep and goats; External parasites of sheep and goats; Growth and characteristics of wool and hair;

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Wilk grading and marketing;
Livestock and meat marketing and grading; Carcase and meat qualities; Milk production in sheep and goats; Systems, biological and economic efficiencies; Very extensive systems; Extensive grazing systems; Intensive

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grassland systems;
Intensive arable
systems; Very
intensive systems;
Government
controlled systems;
Migratory
(Transhumance)
systems; Nomadic
systems; Village
and smallholder
systems; List of
contributors.

Explores Worldwide

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Trends Involving
the Production and
Use of Biofuels
With the depletion
of oil resources as
well as the
negative
environmental
impact of fossil
fuels, there is
much interest in
alternative energy
sources. Focusing
on some of the

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most important alternate energy sources for the foreseeable future, the Handbook of Plant-Based Biofuels provides state-of-the-art information on the status of the production of biofuels, in particular, bioethanol and

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biodiesel.

Introduction to Biofuels After profiling plant-based biofuels, the book gives an overview of the production of biofuels from biomass materials by thermochemical and biochemical methods. It examines the

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thermochemical
conversion of
biomass to liquids
and gaseous fuels.
Production of
Bioethanol The
handbook then
analyzes current
biomass-to-ethanol
programs, followed
by a discussion on
ethanol
fermentation from
molasses and

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process practices applied for the improvement of ethanol production by ethanologenic microorganisms. It also explains the hydrolysis and fermentation of ethanol from starchy and lignocellulosic biomasses.

Production of

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Biodiesel In the final chapters, the contributors discuss current perspectives and the future of biodiesel production. They explore biodiesel production substrates, the lipase-catalyzed preparation of biodiesel, and

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biodiesel
production with
supercritical fluid
technologies.

This book reviews
health hazards
associated with
wastewater use
and water
pollutants.

Chapters present
applications of
green materials
made of

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agricultural waste, activated carbon and magnetic materials for wastewater treatment. The removal of toxic metals using algal biomass and the removal of toxic dyes using chitosan composite materials are also discussed. The

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book includes reviews on the removal of phenols, pesticides, and on the use of ionic liquid-modified activated carbon for the treatment of textile wastewater. An up-to-date overview of diverse findings and

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accomplishments
in biocatalysis and
bioenergy With the
high price of
petroleum and
researchers
worldwide seeking
new means of
producing energy,
this comprehensive
book on
biocatalysis for
bioenergy and
biofuel applications

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is very timely. It combines information on state-of-the-art advances and in-depth reviews of the latest achievements in biocatalysis and bioenergy, emphasizing biodiesel, bioethanol, and industrial products.

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The advantages of biocatalysis include high specificity, efficiency, energy conservation, and pollution reduction. Biocatalysis and Bioenergy details advances in the field, with: * Three primary sections, covering biodiesel research, bioethanol, and

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industrial products

* Information on
enzyme catalysis,
biotransformation,
bioconversion,
fermentation,
genetic
engineering, and
product recovery *

* Contributions
from leading
experts worldwide
who share their
research and

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findings The prospect of using biocatalysis for the production of energy has great potential due to its cost-effectiveness, the fact that it does not require a limited resource such as oil, and its potential universality of application and use

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globally. This is the definitive reference for biochemists and biochemical engineers, bioprocess and bioenergy scientists, physical and oil chemists (oleochemists), microbiologists, industrial microbiologists, molecular

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biologists,
metabolic
engineers working
in biocatalysis,
bioethanol, and
biodiesel fuels,
DOE scientists
working on
renewable energy,
and other
professionals in
related fields.
Free-floating
Subdivisions

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Zeolite Catalysts
Compliance Status
of Major Air
Pollution Facilities
Self-elevating
Barge
An Alphabetical
Index
Synthesis,
Properties, and
Applications
*Dip into this
illustrated*

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account of key inventions and discoveries, listed year by year, with intriguing facts about each invention and the person (or people) who invented it. From the

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help you*

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presented.*

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Oils*

*Single Cell
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Superacids

A Biosynthetic

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Approach

*Exercises to
Build a Better
Back and
Improve Your
Posture*

This book is aimed
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of people who need
to use chemometrics
but do not wish to
understand complex

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therefore it offers a
comprehensive
examination of the
field of
chemometrics
without
overwhelming the
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mathematics. *

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use of

chemometrics.

Separation of
molecules present in
organic solvents by
membrane
(nano)filtration has
great potential in
industries ranging
from refining to fine
chemical and
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synthesis and is currently an area of intensive studies.

This will be the first concise reference book offering a critical analysis on this topic.

Nanofiltration, is a pressure driven membrane process used to remove

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solutes with
molecular weight in
the range of
200-1,000 g mol⁻¹
typically from
aqueous streams. A
recent innovation is
the extension of
nanofiltration
processes to organic
solvents an emerging
technology referred

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to as Organic Solvent
Nanofiltration
(OSN). Separation of
molecules present in
organic solvents by
nanofiltration has
great potential in
various processes
such as petroleum
refining, fine
chemical and
pharmaceutical

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synthesis, catalyst
recycle, enrichment
of aromatics etc.

This book
summarizes the
developments in the
field of OSN. It
describes materials
and methods used
for the preparation
of organic solvent
stable membranes.

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Various techniques for manufacturing of OSN membranes, their physico-chemical and performance related characterization and membrane transport mechanisms will be discussed and critically evaluated.

A summary of the

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commercially
available OSN
membranes, their
separation properties
and manufacturers
will also be
presented. Finally a
detailed overview of
the OSN applications
in various industrial
and laboratory scale
processes as well as

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their future

prospective will be
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coverage of the field
of organic Solvent
Nanofiltration:
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in this fast
developing
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membranes in
industrial filtration
and water
purification
Applications of
membranes -
summary of the
existing applications
and proposed new
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literature is valuable when it helps to guide my efforts". Contains a large number of diagrams /figures (60 approx) which offer graphical explanations of the processes and the mechanisms underlying the

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processes provides practical and easy to understand examples of practical applications. The user can easily adapt these to his/her specific application

Worked examples 15 (approx) Guide the reader through the various parameters,

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and show the reader
the effect of these
parameters in the
overall design of the
process Includes
multimedia content,
videos and active
tables and diagrams
Enable the user to
add his/her own data
and conditions and
get results relevant to

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his/her situation.

Tables (25 approx)

Provides review and
critical analysis of
the data on currently
available OSN

membranes Glossary

Summary of the
main terms used in
OSN

Many thousands of
years ago, humans

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were introduced to the toxicants of minerals and plants of microbial origin, and since that time, natural bioactive compounds have been used in traditional medicine for treating different health conditions, but also as

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aphrodisiacs and as a means of suicide or murder. Modern medicine acknowledges natural bioactive compounds as valuable medicinal sources for both diagnostic and curative purposes. Natural compounds

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serve as templates for the production of new drugs with improved pharmacological properties. This book explains the term bioactivity and deals with the bioactive compounds of plants, animals, microbial and marine origin.

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Their use by traditional medicinal approach, as well as by modern medicine is further elaborated. Both beneficial and toxic properties of different chemical classes, including alkaloids, peptides, terpenoids, bioactive amines etc., are

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described. Their isolation at the industrial scale is presented through several technological processes which are explained in detail for several compound classes. The research explains how natural sources can be

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exploited my modern
and traditional
medicine, and
presents the risks
and benefits
associated with their
use. In addition, a
new approach to
studying bioactivity,
that includes
computational
modeling and

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softwares for in silico description and prediction, is explained. A chemometric approach to studying bioactivity is demonstrated through several models given for some natural bioactive compounds

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and their derivatives.

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Principles and

Applications

Handbook of Plant-

Based Biofuels

Fungi in

Bioremediation

Biocatalysis and

Bioenergy

Basic Concepts