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*An Overview Of
Mmg 445 Basic
Biotechnology*

Human actions
across the past few
centuries have led
to a depletion of the
world's natural
energy sources, as
well as large scale
environmental

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Biotechnology
degradation. In the context of these current global issues, this book covers the latest research on the application and use of microbes in topical areas such as bioremediation and biofuels. With chapters covering environmental clean-

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Biotechnology
up, microbial fuel
cells and
biohydrogen, it
provides a
comprehensive
discussion of the
latest developments
in the field of
microbe utilization.

Chitosan in
Biomedical
Applications
provides a thorough

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insight into the complete chitosan chemistry, collection, chemical modifications, characterization and applications of chitosan in biomedical applications and healthcare fields. Chitosan, a biopolymer of

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natural origin, has been explored for its variety of applications in biomedical research, medical diagnostic aids and material science. It is the second most abundant natural biopolymer after cellulose, and considered as an

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Biotechnology
excellent excipient
because of its non-
toxic, stable,
biodegradable
properties. Several
research
innovations have
been made on
applications of
chitosan in
biomedical
applications. The
book explores key

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topics, such as molecular weight, degree of deacetylation, and molecular geometry, along with an emphasis on recent advances in the field written by academic, industry, and clinical researchers.

Chitosan in
Biomedical

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Biotechnology
Applications will be
of interest to those
in biomedical fields
including the
biomaterials and
tissue engineering
community
investigating and
developing
biomaterials for
biomedical
applications,
particularly graduate

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students, young
faculty and others
exploring chitosan-
based materials.

Provides
methodology for the
design,
development and
selection of chitosan
in biomedical
applications for
particular
therapeutic

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applications

Includes illustrations
demonstrating the
mechanism of
biological interaction
of chitosan

Discusses the
regulatory aspects
and demonstrates
the clinical efficacy
of chitosan

With no emissions
and water as a

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byproduct, the globe could imagine a sustainable and resilient human kind that obliterates any possible chances of future climate change. With increased globalization, there has been an unprecedented escalation in

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production processes thus generating valued products and byproducts. A significant quantum of the waste materials generated can be transformed into fuels with the help of MFCs. MFC ' s utilities would bring about a

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paradigm shift built on the principles of sustainability, encompassing closed loop biorefinery approach. A MFC ' s bio-refinery ensures complete allocation of products and byproducts in various processes yielding zero waste.

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Such efforts would not only help in managing waste but also contribute to generation of renewable fuel and valued products that fosters sustainable development. To cater to the needs of the present challenges in waste management,

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bioenergy and bio
product recovery
and commercial
sustainability, this
book on MFCs will
emphasize and
throw light on
various
mechanisms, routes
and reaction
engineering
approaches for
complete

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transformation of
waste to wealth.

Examines the life of
the black leader
who started the
Back-to-Africa
movement in the
United States,
believing blacks
would never receive
justice in countries
with a white
majority.

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Biotechnology
Endophytes: Crop
Productivity and
Protection

Therapeutic Use of
Medicinal Plants
and their Extracts:
Volume 2

Frontiers in Soil and
Environmental
Microbiology
Volume 2

Environmental Fate
and

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Biotechnology
Health/Ecological
Consequences

Production and
Applications in the
Environment and
Biomedicine
Biohydrogen
Production:
Fundamentals and
Technology Advances
covers the
fundamentals of
biohydrogen

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production
technology, including
microbiology,
biochemistry,
feedstock
requirements, and
molecular biology of
the biological
hydrogen production
processes. It also
gives insight into
scale-up problems
and limitations. In
addition, the book

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discusses
mathematical
modeling of the
various processes
involved in
biohydrogen
production and the
software required to
model the processes.
The book summarizes
research advances
that have been made
in this field and
discusses bottlenecks

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of the various processes, which presently limit the commercialization of this technology. The authors also focus on the process economy, policy, and environmental impact of this technology, since the future of biohydrogen production depends not only on research

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advances, but also on economic considerations (the cost of fossil fuels), social espousal, and the development of H₂ energy systems. The book describes the fundamentals of this technology interwoven with more advanced research findings. Further reading is suggested

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at the end of each
chapter. Since the

beauty of any
innovation is its
applicability,
socioeconomic
impact, and cost
energy analysis, the
book examines each
of these points to give
you a holistic picture
of this technology.

Illustrative diagrams,
flow charts, and

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comprehensive tables detailing the scientific advancements provide an opportunity to understand the process comprehensively and meticulously. Written in a lucid style, the book supplies a complete knowledge bank about biohydrogen

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production processes.
Sustainability of
environment is an
emerging global issue
at present.

Unsustainable or
deteriorating
environment is a
matter of concern as
it has threatened the
survival of living
creatures. Recently,
climate change has
been a matter of

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great concern at a global platform owing to imbalances in natural environment. Increasing population has increased the demand for energy, which has ultimately put pressure on natural resources and caused a paradigm shift from resource generation to exploitation.

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Emerging Energy Alternatives for

Sustainable

Environment aims to
address the role of
sustainable

technologies in
energy generation
options for clean
environment. It

covers a wide
spectrum of energy
generation

approaches, with an

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emphasis on five key topics. (i) renewable energy sources and recent advances, (ii) emerging green technologies for sustainable development, (iii) assessment of biomass for sustainable bioenergy production, (iv) solid waste management and its potential for

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energy generation,
and (v) solar energy
applications, storage
system, and heat
transfer. This book
provides essential and
comprehensive
knowledge of green
energy technologies
with different aspects
for engineers,
technocrats and
researchers working
in the industry,

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universities, and
research institutions.

The book is also very
useful for

undergraduate and
graduate students of
science and

engineering who are
keen to know about

the development of
renewable energy
products and their

corresponding
processes. Please

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Resources Institute
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and Sri Lanka

The problems
engendered by the
conflicting

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imperatives of development and ecology show no sign of ending, and every day more locations are added to the list of landscapes poisoned by human activity. This vital book, featuring an international set of authors, is a key reference for researchers and

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environmental managers, as well as anyone involved in the mining industry or landscape remediation. The comprehensive coverage of current approaches to phytoremediation begins by examining the problem. It looks at natural and human-induced toxins, and

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their effects on natural vegetation as well as agricultural crops. Particular attention is paid to the two largest challenges to remediation – heavy metals, and the salt stress that is impeding agricultural productivity worldwide. The text moves on to focus on

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the efficacy of different plant species in removing toxic pollutants from the environment. Along with analysis of a number of case studies, this section includes new and updated information on the mechanism of toxin-tolerance in plants.

This title includes a

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number of Open
Access chapters. The
world needs
renewable and clean
forms of energy.
Biofuels offer an
alternative to fossil
fuels, but first-
generation biofuels
had many challenges
to be overcome. One
strategy that second-
generation biofuels
are employing is

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microbial technology.

This compendium
volume gathers
together recent
investigations within
this vital field of
research. It offers: An
overview of the topic
Investigations into
the varieties of
microorganisms
useful for this
technology

Pretreatment

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Biotechnology

methodologies
Genetic engineering
research that will
further this
technology
Internationally
recognized experts
contribute chapters
on their individual
areas of research
within this vital field
of study. The book
offers an
authoritative platform

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from which graduate students and scientists can build future investigations that will create still more advanced biofuels.

Biodegradation
Energy and
Environment
Phytoremediation
Microarray Image
and Data Analysis
Encyclopedia of

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Polymer Applications,
3 Volume Set
Biotechnology

Therapeutic Use of
Medicinal Plants and
Their Extracts:
Volume 1

*Microarray
Image and Data
Analysis: Theory
and Practice is a
compilation of
the latest and
greatest*

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445 Basic
Biotechnology
*microarray
image and data
analysis*

*methods from
the*

*multidisciplinary
international
research*

community.

*Delivering a
detailed*

discussion of the

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Biotechnology

*biological
aspects and
applications of
microarrays, the
book: Describes
the key stages
of image
processing,
gridding,
segmentation,
compression,
quantification,*

Read Free An
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*and
normalization*

*Features cutting-
edge*

*approaches to
clustering,*

*biclustering, and
the*

*reconstruction
of regulatory*

*networks Covers
different types*

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Biotechnology
*of microarrays
such as DNA,
protein, tissue,
and low- and
high-density
oligonucleotide
arrays Examines
the current state
of various
microarray
technologies,
including their*

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Biotechnology
*availability and
affordability*

*Explains how
data generated
by microarray
experiments are
analyzed to
obtain
meaningful
biological
conclusions An
essential*

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445 Basic
Biotechnology
*reference for
academia and
industry,*

*Microarray
Image and Data
Analysis: Theory
and Practice
provides readers
with valuable
tools and
techniques that
extend to a wide*

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Biotechnology

*range of
biological
studies and
microarray
platforms.*

*Soil harbours a
wide range of
microorganisms
with biotic
potentials which
can be explored
for social*

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Biotechnology
*benefits. The
book *Frontiers in
Soil and
Environmental
Microbiology*
comprises an
overview of the
complex inter-
relationship
between
beneficial soil
microbes and*

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crop plants, and highlights the potential for utilisation to enhance crop productivity, bioremediation and soil health. The book focusses on important areas of research such

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Biotechnology

*as biocide
production,
pesticide
degradation and
detoxification,
microbial decay
processes,
remediation of
soils
contaminated
with toxic
metals,*

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Biotechnology

*industrial
wastes, and
hydrocarbon
pollutants.*

Features

*Presents the
state of the art
of microbial
research in
environmental
and soil
microbiology*

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Biotechnology

*Discusses an
integrated and
systematic
compilation of
microbes in the
soil environment
and its role in
agriculture and
plant growth
and productivity
Elucidates
microbial*

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Biotechnology
*application in
environmental
remediation*

*Explores
advanced
genomics topics
for uncultivable
microbes of soil
Considering the
ever-increasing
global
population and*

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Biotechnology

*finite arable
land, technology
and sustainable
agricultural
practices are
required to
improve crop
yield. This book
examines the
interaction
between plants
and microbes*

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*and considers
the use of
advanced
techniques such
as genetic
engineering,
revolutionary
gene editing
technologies,
and their
applications to
understand how*

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445 Basic
Biotechnology
*plants and
microbes help or
harm each other
at the molecular
level.*

*Understanding
plant-microbe
interactions and
related gene
editing
technologies will
provide new*

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445 Basic
Biotechnology
*possibilities for
sustainable
agriculture. The
book will be
extremely useful
for researchers
working in the
fields of plant
science,
molecular plant
biology, plant-
microbe*

Read Free An
Overview Of Mmg

445 Basic
interactions,
Biotechnology
plant

engineering
technology,
agricultural
microbiology,
and related
fields. It will be
useful for upper-
level students
and instructors
specifically in

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Overview Of Mmg

445 Basic
Biotechnology
*the field of
biotechnology,
microbiology,
biochemistry,
and agricultural
science.*

Features:

*Examines the
most advanced
approaches for
genetic
engineering of*

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445 Basic
Biototechnology
*agriculture
(CRISPR, TALAN,
ZFN, etc.).*

*Discusses the
microbiological
control of
various plant
diseases.*

*Explores future
perspectives for
research in
microbiological*

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445 Basic
plant science.

*Plant-Microbial
Interactions and
Smart*

*Agricultural
Biotechnology
will serve as a
useful source of
cutting-edge
information for
researchers and
innovative*

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445 Basic
Biotechnology
*professionals, as
well as upper-
level
undergraduate
and graduate
students taking
related
agriculture and
environmental
science courses.
With
contributions*

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Biotechnology

*from a broad
range of experts
in the field, this
volume,
Microbiology for
Sustainable
Agriculture, Soil
Health, and
Environmental
Protection,
focuses on
important areas*

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Biotechnology
*of microbiology
related to soil
and
environmental
microbiology
associated with
agricultural
importance. The
information and
research on soil
and
environmental*

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Biotechnology
*microbiology
presented here
seeks to act as a
gateway to
sustaining and
improving
agriculture and
environmental
security. Part I
focuses on soil
microbiology,
dealing*

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*extensively with
studies on the
isolation,
culture, and use
of Rhizobium
spp. and
mycorrhizae to
improve soil
fertility, plant
growth, and
yield. This
includes*

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*research
progress on
biogeochemical
cycles, plant
growth
promoting
rhizobacteria
(PGPR),
microbial
interactions in
soil and other
soil activities,*

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Biotechnology
*microbial
diversity in soil,
biological
control and
bioremediation,
and
improvement of
beneficial
microorganisms
(N₂ fixers,
phosphate
solubilizers,*

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Biotechnology
*etc. Part 2
goes on to focus
on microbiology
for crop disease
management
and pathogenic
control in
sustainable
environment,
with chapters on
disease
management of*

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Biotechnology
*agricultural and
horticultural
crop plants
through
microbial control
and how
microbial control
may a be a
potential
solution for a
sustainability in
agriculture. Part*

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Biotechnology
3, *Microbiology
for Soil Health
and Crop
Productivity
Improvement,*
features a
chapter on the
activity and
mechanism of
nitrogenase
enzyme in soil,
which is very

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Biotechnology
*important for
soil health and
crop production
and
productivity.*

*Part 4 presents
two chapters
entirely devoted
to the
environmental
pollution and its
control, looking*

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Biotechnology

*at the
interaction of
microbes in
aqueous
environments
and eco-friendly
approaches.
There is an
urgent need to
explore and
investigate the
current*

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*shortcomings
and challenges
of the current
innovations and
challenges in
agricultural
microbiology.
This book helps
to fill that need.
This volume will
be valuable to
those involved*

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Biotechnology
*with agricultural
microbiology,
including
students,
instructors, and
researchers.*

*Microbiology for
Sustainable
Agriculture, Soil
Health, and
Environmental
Protection*

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Sources, Effects,
and
Biotechnology
Management
MFCs -
Prospects
through
Prognosis
Phytochemistry
and Bioactive
Compounds
Theory and
Practice

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Dioxin
Biotechnology

Fungi are an essential, fascinating and biotechnologically useful group of organisms with an incredible biotechnological potential for industrial exploitation.

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Biotechnology

Knowledge of
the world's
fungal
diversity and
its use is
still
incomplete and
fragmented.
There are many
opportunities
to accelerate
the process of
filling

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knowledge gaps
in these areas.

The worldwide
interest of the
current era is
to increase the
tendency to use
natural
substances
instead of
synthetic ones.
The increasing
urge in society

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for natural
Biotechnology
ingredients has
compelled biote
chnologists to
explore novel
bioresources
which can be
exploited in
industrial
sector. Fungi,
due to their
unique
attributes and

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Biotechnology
broad range of
their

biological
activities hold
great promises
for their
application in
biotechnology
and industry.

Fungi are an
efficient
source of
antioxidants,

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**enzymes,
pigments, and
many other
secondary
metabolites.**

**The large scale
production of
fungal pigments
and their
utility
provides
natural
coloration**

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without
Biotechnology
creating

harmful effects
on entering the
environment, a
safer
alternative use
to synthetic
colorants. The
fungal enzymes
can be
exploited in
wide range of

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Biotechnology
industries such
as food,
detergent,
paper, and also
for removal
toxic waste.
This book will
serve as
valuable source
of information
as well as will
provide new
directions to

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researchers to
conduct novel
research in
field of
mycology.

Volume 2 of
"Industrially
Important Fungi
for Sustainable
Development"
provides an
overview to
understanding

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Biotechnology
bioprospecting
of fungal
biomolecules
and their
industrial
application for
future
sustainability.
It encompasses
current
advanced
knowledge of
fungal

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Biotechnology
communities and
their potential
biotechnologica
l applications
in industry and
allied sectors.
The book will
be useful to
scientists,
researchers,
and students of
microbiology,
biotechnology,

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Biology
agriculture,
molecular

biology, and
environmental
biology.

Bacterial Fish
Diseases:

Environmental
and Economic
Constraints
will be useful
for researchers
and academics

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who need to
understand the
nature and
consequences of
bacteria-
related disease
in fishes. It
has in-depth
information on
the complete
genome of
various
bacterial

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**species and
identifies an
essential
number of
virulence genes
that affect the
pathogenic
potential of
the bacteria in
fish. Users
will find the
most relevant
information**

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Biotechnology
derived from
the available
bacterial
genomes
concerning
virulence and
the diverse
virulence
factors that
actively
participate in
host adherence,
colonization

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and infection,
including
structural
components,
extracellular
factors,
secretion
systems, iron
acquisition and
quorum sensing
mechanisms.

This reference
is beneficial

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for
Biotechnology
understanding
economic losses
due to
bacterial
pathogens in
fish fauna and
its impact on
the economy. It
addition, it
provides
information on
good

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aquaculture
practices and
how to
scientifically
manage
aquaculture and
fishery
sectors.

Presents bacter
ia-related
diseases in
fish species,
highlighting

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Biotechnology
problems
associated with
the culturing
of fish
Discusses
pollution
contamination
in freshwater
ecosystems to
provide
insights into
the sustainable
management of

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fish species
Provides

fundamental
research

concepts of
fish health,
along with

practical
research
methods

This book
describes

barriers from

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the macro to
the nanoscale,
starting with
endothelial and
mucosal
barriers, and
ending with
cellular
organelles.
Experimental
approaches to
track
nanoparticles

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in vitro and in
Biotechnology
vivo are
presented, as
well as the
ability to
tailor-make
nanoparticles
for specific
functions.
Several model
types of
nanoparticles
are presented,

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as well the

Biotechnology
impact of

particle

attributes on

biological

transport.

RNA functions

broadly as

informational

molecule,

genome, enzyme

and machinery

for RNA

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processing.

Biotechnology
While these
functions
reflect ancient
activities,
they also
remain vital
components of
contemporary
biochemical
pathways. In
eukaryotic
cells RNA

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Biotechnology
processing
impacts the

biogenesis of
RNA molecules
of essentially
every shape and
function. The
collection of
articles in
this volume
describes the
current state
of

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445 Basic
Biotechnology
understanding
of the broad
array of RNA
processing
events in
animal and
plant cells,
key unanswered
questions, and
cutting edge
approaches
available to
address these

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Biotechnology
questions. Some
questions
discussed in
this volume
include, how
viruses subvert
the RNA
processing
machinery of
the host cell,
how the
coordination of
co-transcriptio

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nal RNA

Biotechnology
processing is
regulated at
the level of
chromatin, the
status of RNA
processing in
plant
organelles, and
how micro RNA
machinery is
biosynthesized
and regulated.

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Bioprospecting
Biotechnology
for

biomolecules

Industrial

Biorefineries

and White

Biotechnology

Bacterial Fish

Diseases

Fundamentals

and Technology

Advances

Industrially

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Biotechnology

**Important Fungi
for Sustainable
Development
Chitosan in
Biomedical
Applications**

**This text details
the plant-
assisted
remediation
method, “phytor
emediation”,**

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**which involves
the interaction
of plant roots
and associated
rhizospheric
microorganisms
for the
remediation of
soil
contaminated
with high levels
of metals,**

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**metalloids, fuel
and oil**

**hydrocarbons,
nano particles,
pesticides,
solvents,
organic
compounds and
various other
contaminants.**

**Many chapters
highlight and**

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**compare the
efficiency and
economic
advantages of p
hytoremediation
and nano-phytor
emediation to
currently
practiced soil
and water
treatment
practices.**

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**Volume 6 of Phy
toremediation:
Management of
Environmental
Contaminants
continues the
series. Taken
together, the six
volumes provide
a broad-based
global synopsis
of the current**

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**applications of p
hytoremediation
using plants and
the microbial
communities
associated with
their roots to
decontaminate
terrestrial and
aquatic
ecosystems.
This book**

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**contains a
collection of
different
research
activities where
several
technologies
have been
applied to the
optimization of
biodegradation
processes. The**

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**book has three
main sections:**

A)

**Hydrocarbons
biodegradation,**

B)

**Biodegradation
and anaerobic
digestion, and**

C)

**Biodegradation
and**

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sustainability.

**Biovalorisation
of Wastes to
Renewable
Chemicals and
Biofuels
addresses
advanced
technologies for
converting
waste to
biofuels and**

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**value-added
products.**

**Biovalorisation
has several
advantages over
conventional
bioremediation
processes as it
helps reduce the
costs of
bioprocesses.
Examples are**

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**provided of
several**

**successfully
commercialized
technologies,
giving insight
into developing,
potential
processes for
biovalorisation
of different
wastes.**

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**Different
bioprocess
strategies are
discussed for
valorising the
wastes coming
from the leather
industry, olive
oil industry,
pulp and paper,
winery, textile,
and food**

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**industries, as
well as**

**aquaculture. A
section on
biorefinery for
hydrocarbons
and emerging
contaminants is
included to
cover concepts
on biodesulfuriz
ation of**

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**petroleum
wastes, leaching
of heavy metals
from E - waste,
and bioelectroch
emical
processes for
CO2. Chapters
on algal
biorefinery are
also included to
focus on the**

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**technologies for
conversion of
CO₂**

**sequestration
and wastewater
utilization.**

**Biovalorisation
of Wastes to
Renewable
Chemicals and
Biofuels can be
used as course**

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**material for
graduate
students in
chemical
engineering,
chemistry, and
biotechnology,
and as a
reference for
industrial
professionals
and researchers**

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**who want to
gain a basic
understanding
on the subject.
Covers a wide
range of topics,
from the
conversion of
wastes to
organic acids,
biofuels,
biopolymers and**

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**industrially
relevant**

products

**Bridges the gap
between**

**academics and
industry Written
in a lucid and
self-explanatory
style Includes ac
tivities/quiz/criti
cal questions**

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**This volume
focuses on the
importance of
therapeutically
active
compounds of
natural origin.
Natural
materials from
plants,
microbes,
animals, marine**

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**organisms and
minerals are**

important

sources of

modern drugs.

Beginning with

two chapters on

the development

and definition of

the

interdisciplinary

field of

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Biotechnology
**pharmacognosy,
the volume**

**offers up-to-date
information on
natural and
biosynthetic
sources of
drugs,
classification of
crude drugs, ph
armacognosical
botany,**

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**examples of
medical
application,
WHO's
guidelines and
intellectual
property rights
for herbal
products.**

**New Microbial
Technologies for
Advanced**

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Biofuels
Biotechnology

**Principles,
Recovery
Methods and
Environmental
Concerns
RNA Processing
Bacteriophages:
Practical
Applications for
Nature's**

Page 128/260

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Biocontrol Biotechnology in Biopolymers

Abiotic and biotic
stress factors,
including
drought, salinity,
waterlog,
temperature
extremes,
mineral
nutrients, heavy

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metals, plant
diseases,

nematodes,

viruses, and

diseases,

adversely affect

growth as well as

yield of crop

plants worldwide.

Plant growth-

promoting

microorganisms

(PGPM) are

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receiving
increasing
Biotechnology

attention from
agronomists and
environmentalists
as candidates to
develop an
effective, eco-
friendly, and
sustainable
alternative to
conventional
agricultural (e.g.,

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chemical
fertilizers and
pesticide) and
remediation (e.g.,
chelators-
enhanced phytore
mediation)
methods
employed to deal
with climate
change-induced
stresses. Recent
studies have

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shown that plant
growth-
promoting
bacteria (PGPB),
rhizobia,
arbuscular
mycorrhizal fungi
(AMF),
cyanobacteria
have great
potentials in the
management of
various

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agricultural and environmental problems. This book provides current research of biofertilizers and the role of microorganisms in plant health, with specific emphasis on the mitigating strategies to

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combat plant
stresses.

Emerging
Technologies in
Environmental
Bioremediation
introduces
emerging
bioremediation
technologies for
the treatment
and management
of industrial

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wastes and other
environmental
pollutants for the
sake of
environmental
sustainability.

Emerging
bioremediation
approaches such
as nano-
bioremediation
technology, electr
o-bioremediation

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Biotechnology
technology,
microbial fuel cell

technology,
Modified Ludzack-
Ettinger Process,
Modified

Activated Sludge
Process, and

phytotechnologie
s for the

remediation of
industrial

wastes/pollutants

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are discussed in a
comprehensive
manner not found
in other books.
Furthermore, the
book includes
updated
information as
well as future
directions for
research in the
field of
bioremediation of

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industrial wastes.

This book will be
extremely useful
to students,
researchers,
scientists and
professionals in
the field of
microbiology and
biotechnology,
Bio (chemical)
engineers,
environmental

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researchers, eco-
toxicology, and
many more.

Includes the
recovery of
resources from
wastewater

Describes the
importance of
microorganisms
in environmental
bioremediation
technologies

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Points out the
reuse of treated
wastewater
through
emerging
technologies Pays
attention to the
occurrence of
novel micro-
pollutants
Emphasizes the
role of
nanotechnology

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Biotechnology
in pollutant
bioremediation

This is the fourth updated and revised edition of a well-received book that emphasises on fungal diversity, plant productivity and sustainability. It contains new

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chapters written
by leading
experts in the
field. This book is
an up-to-date
overview of
current progress
in mycorrhiza
and association
with plant
productivity and
environmental
sustainability.

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The result is a must hands-on guide, ideally suited for agri-biotechnology, soil biology, fungal biology including mycorrhiza and stress management, academia and researchers. The

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topic of this book is particularly relevant to researchers involved in mycorrhiza, especially to food security, plant microbe interaction and environmental protection.

Mycorrhizas are

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Biotechnology
symbioses
between fungi

and the roots of
higher plants. As
more than 90% of
all known species
of plants have the
potential to form
mycorrhizal
associations, the
productivity and
species
composition and

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Biotechnology
the diversity of
natural

ecosystems are
frequently
dependent upon
the presence and
activity of
mycorrhizas. The
biotechnological
application of
mycorrhizas is
expected to
promote the

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Biotechnology
production of
food while

maintaining
ecologically and
economically
sustainable
production
systems.

This book reviews
the latest
developments in
our
understanding of

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Biotechnology
microbial
endophytes and
their potential
applications in
enhancing
productivity and
disease
protection. It
covers all the
latest discoveries
regarding
endophytes, their
interactions with

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plants and
application in

agricultural
productivity and
protection. Our
understanding of
endophytes has
increased
exponentially in
recent decades.
These microbes,
such as fungi,
bacteria, and

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actinobacteria,
establish a

symbiotic or
parasitic
association with
plants. A better
understanding of
endophytic
microorganisms
may help to
elucidate their
functions and
potential role in

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developing
sustainable

systems of crop
production and
improved
protection
against biotic
stresses.

Endophytes play
a vital role in
plant growth and
health promotion.

Endophytic

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bacteria are of
agrobiological
interest because
they create host-
endophyte
relationships,
which can open
exciting
prospects for
newer
biotechnological
applications.

Endophytes have

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also proven to be a beneficial and sustainable alternative to agrochemicals due to their role in the biocontrol of pests and diseases.

Further, endophytes are essential to the production of

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several
secondary
metabolites in
grasses, in the
process of
gummosis in
trees, and the
production of
useful
metabolites such
as alkaloids,
pestalocide,
cryptocandin,

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enfumafungin,
subglutinols, etc.
for the host plant.
They are also
involved in the
production of
enzymes,
biosurfactants,
biocontrol agents
and plant growth
promoters. As
such, it is
imperative that

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we explore these
products'

industrial
applications in
the fields of
biotechnology,
pharmacy and
agriculture. This
volume will offers
a valuable
guidance for
botanists,
microbiologists,

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biotechnologists,
molecular
biologists, enviro
nmentalists,
policymakers,
conservationists,
and those
working for the
protection of
plant species of
agricultural and
medicinal
importance.

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Plant-Microbial
Interactions and

Smart

Agricultural
Biotechnology

From Theory to
Practice

Plant Growth-
Promoting

Microbes for
Sustainable

Biotic and Abiotic
Stress

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Management
Fundamentals of
Environmental
Site Assessment
and Remediation
Polymers for
Packaging
Applications
Advances in
PGPR Research
*Biosurfactants for
a Sustainable*

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Future Explores the state-of-the-art in biosurfactant technology and its applications in environmental remediation, biomedicine, and biotechnology
Biosurfactants for a Sustainable Future explores

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recent developments in biosurfactants and their use in a variety of cutting-edge applications. The book opens a window on the rapid development of microbiology by explaining how microbes and their

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*products are used
in advanced
medical technology
and in the
sustainable
remediation of
emerging
environmental
contaminants. The
book emphasizes
the different
techniques that are*

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*used for the
production of
biosurfactants from
microorganisms
and their
characterization.
Various aspects of
biosurfactants,
including structural
characteristics,
developments,
production, bio-*

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*economics and
their sustainable
use in the
environment and
biomedicine, are
addressed, and the
book also presents
metagenomic
strategies to
facilitate the
discovery of novel
biosurfactants*

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Biotechnology
*producing
microorganisms.*

*Readers will
benefit from the
inclusion of: A
thorough
introduction to the
state-of-the-art in
biosurfactant
technology,
techniques, and
applications An*

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Biotechnology

*exploration of
biosurfactant
enhanced
remediation of
sediments
contaminated with
organics and
inorganics A
discussion of
perspectives for
biomedical and
biotechnological*

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Biotechnology
*applications of
biosurfactants A
review of the*

*antiviral,
antimicrobial, and
antibiofilm potential
of biosurfactants
against multi-drug-
resistant
pathogens. An*

*examination of bio
surfactant-inspired*

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*control of
methicillin-resistant
Staphylococcus
aureus Perfect for
academic
researchers and
scientists working
in the
petrochemical
industry,
pharmaceutical
industry, and in the*

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*agroindustry,
Biosurfactants for
a Sustainable
Future will also
earn a place in the
libraries of
scientists working
in environmental
biotechnology,
environmental
science, and
biomedical*

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engineering.

*This volume
provides a
complete record of
presentations
made at Industrial
Engineering,
Management
Science and
Applications 2015
(ICIMSA 2015),
and provides the*

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Biotechnology

*reader with a
snapshot of current
knowledge and
state-of-the-art
results in industrial
engineering,
management
science and
applications. The
goal of ICIMSA is
to provide an
excellent*

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*international forum
for researchers
and practitioners
from both
academia and
industry to share
cutting-edge
developments in
the field and to
exchange and
distribute the latest
research and*

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Biotechnology
*theories from the
international*

*community. The
conference is held
every year, making
it an ideal platform
for people to share
their views and
experiences in
industrial
engineering,
management*

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*science and
applications
related fields.*

*This book provides
an account of the
major
environmental
contaminations
present today, and
offers detailed
insights into their
potential*

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remediation through bio-based solutions. Bringing together the work of various international experts in this field, it contains comprehensive reviews on the mechanisms of bioremediation.

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Biotechnology

Moreover, the book discusses the strategies by which bacteria and plants help in the decontamination of environmental pollutants. As such, it represents a valuable resource for a wide audience, including

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*environmental
scientists,
biochemists, soil
scientists,
botanists,
agronomists and
molecular
biologists.*

*Dioxin –
Environmental
Fate and
Health/Ecological*

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Consequences offers a unique, and comprehensive coverage of dioxins and their congeners once they are released to the environment. The book provides readers with a systematic

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*understanding of
past and emerging
sources of dioxins,
current dioxins
inventories and
historical trends,
fate and long-
range
transboundary
atmospheric
transport, human
health, and*

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Biotechnology
*ecological risk and
regulatory
perspective.*

*Providing an
excellent analysis
of dioxin exposure
through the food
chain and impact
on human health, it
also documents
the environmental
implications of*

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*dioxins on
ecological flora
and fauna. The
book offers
readers a holistic
understanding
about dioxins, their
atmospheric fate
and transport,
distribution in
various
environmental*

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matrices and various routes and exposure pathways through which human beings are exposed to this persistent organic pollutant. It further offers an insight into the toxicological profile

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Biotechnology
*and mechanistic
analysis of the
onset of cancer,
remediation
technologies, and
existing regulatory
framework to deal
with the problems
associated with
dioxins. The book
will serve as an
excellent resource*

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*to environmental
professionals,
particularly
environmental
toxicologists,
environmental
health
professionals,
remediation
engineers,
environmental
regulatory*

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*agencies,
policymakers, and
environmental law
professionals.*

*Dendrimer-Based
Drug Delivery
Systems*

*Biosurfactants for
a Sustainable
Future*

*Mass Transport of
Nanocarriers*

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*Biohydrogen
Production*

Waste to

Sustainable

Energy

Emerging Energy

Alternatives for

Sustainable

Environment

*Undoubtedly the
applications of
polymers are*

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rapidly
evolving.

*Technology is
continually
changing and
quickly
advancing as
polymers are
needed to solve
a variety of
day-to-day
challenges
leading to*

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Biotechnology
*improvements in
quality of
life. The
Encyclopedia of
Polymer
Applications
presents state-
of-the-art
research and
development on
the
applications of
polymers. This*

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*groundbreaking
work provides
important
overviews to
help stimulate
further
advancements in
all areas of
polymers. This
comprehensive
multi-volume
reference
includes*

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articles
contributed

*from a diverse
and global team
of renowned
researchers. It
offers a broad-
based*

*perspective on
a multitude of
topics in a
variety of
applications,*

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as well as
Biotechnology
detailed

research
information,
figures,
tables,
illustrations,
and references.

The
encyclopedia
provides
introductions,
classifications

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Biotechnology
*, properties,
selection,
types,
technologies,
shelf-life,
recycling,
testing and
applications
for each of the
entries where
applicable. It
features
critical*

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*content for
both novices
and experts
including,
engineers,
scientists
(polymer
scientists,
materials
scientists,
biomedical
engineers,
macromolecular*

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*chemists),
researchers,
and students,
as well as
interested
readers in
academia,
industry, and
research
institutions.
This book
focuses on
food, non-food,*

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Biotechnology
*and industrial
packaging
applications of
polymers,
blends,
nanostructured
materials,
macro, micro
and
nanocomposites,
and renewable
and
biodegradable*

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*materials. It
details
physical,
thermal, and
barrier
properties as
well as
sustainability,
recycling, and
regulatory
issues. The
book emphasizes
interdisciplina*

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ry research on
processing,
morphology,
structure, and
properties as
well as
applications in
packaging of
food and
industrial
products. It is
useful for
chemists,

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445 Basic
Biotechnology
*physicists,
materials*

*scientists,
food*

*technologists,
and engineers.*

*This book
starts with a
general
introduction to
phytochemistry,
followed by
chapters on*

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*plant
constituents,
their origins
and chemistry,
but also
discussing
animal-,
microorganism-
and mineral-
based drugs.
Further
chapters cover
vitamins, food*

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*additives and
excipients as
well as
xenobiotics and
poisons. The
book also
explores the
herbal approach
to disease
management and
molecular
pharmacognosy
and introduces*

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*methods of
qualitative and
quantitative
analysis of
plant
constituents.
Phytochemicals
are classified
as primary
(e.g.
carbohydrates,
lipids, amino
acid*

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Biotechnology
*derivations,
etc.) or*

*secondary (e.g.
alkaloids,
terpenes and
terpenoids,
phenolic
compounds,
glycosides,
etc.)*

*metabolites
according to
their metabolic*

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route of origin, chemical structure and function. A wide variety of primary and secondary phytochemicals are present in medicinal plants, some of which are

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active

phytomedicines

and some of

which are

pharmaceutical

excipients.

Industrial

Biorefineries

and White

Biotechnology

provides a

comprehensive

look at the

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Biotechnology
*increasing
focus on*

*developing the
processes and
technologies
needed for the
conversion of
biomass to
liquid and
gaseous fuels
and chemicals,
in particular,
the development*

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Biotechnology
*of low-cost
technologies.*

*During the last
3-4 years,
there have been
scientific and
technological
developments in
the area; this
book represents
the most
updated
information and*

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445 Basic
Biotechnology
*technological
perspective on
the topic.*

*Provides
information on
the most
advanced and
innovative
pretreatment
processes and
technologies
for biomass
Covers*

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Biotechnology
*information on
lignocellulosic
and algal
biomass to work
on the
principles of
biorefinery
Provides
information on
integration of
processes for
the
pretreatment of*

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biomass
Biotechnology

*Designed as a
textbook for
both graduate
students and
researchers
Developments,
Applications &
Challenging
Areas*

*Mycorrhiza -
Nutrient
Uptake,*

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Hazardous and Trace
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Effects and
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the latest
advancements in
reducing, avoiding

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and eliminating soil
contaminants that
challenge the health
and safety of
agricultural plants.

With a focus on
minimizing the
production of those
hazardous
substances,
controlling their
distribution and
ensuring safe
utilization, the book

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explores each contributing area and provides insights toward improved, sustainable and secure production.

This is an excellent reference resource on both current research and future directions from laboratory research to field applications. The combined impacts of

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climate change and industrialization have led to increased and diversified threats to the health of the soil in which our food crops are grown, as well as in the plants themselves. This dual-hazard scenario is increasingly recognized as a threat to not just the environment, but to

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global food security
as agricultural soils

contaminated with
pollutants alter plant
metabolism, thus
resulting in reduced
crop quality and
production quantity.

Addresses the
challenges of
mitigating toxic
substances in plants,
including agricultural
crops Presents

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current status and
future prospects for
managing biotic and
abiotic environmental
stress factors through
plant stress tolerance
mechanisms Includes
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both biotic and abiotic
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science, toxicology,
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nanotechnology, and

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molecular studies
Integrates insights
and developments
between

environmental and
plant science

Rhizosphere biology
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century of

investigations wherein
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rhizomicroorganisms
(PGPR) have
attracted special

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attention for their ability to enhance productivity, profitability and sustainability at a time when food security and rural livelihood are a key priority. Bio-inputs - either directly in the form of microbes or their by-products - are gaining tremendous momentum and

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harnessing the potential of agriculturally important microorganisms could help in providing low-cost and environmentally safe technologies to farmers. One approach to such biologically-based strategies is the use of naturally occurring

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products such as
PGPR. Written by an
international team of
experts, this book
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research and
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applied agricultural
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science, and also for
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This comprehensive
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important aspects that
are necessary to

understand the field.

The book introduces
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Different methods and
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synthesis and
characterization are
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chapters. Various mode and mechanism of degradation of materials will be discussed. There is a dedicated chapter on industrially available biopolymers and their applications and well as a chapter detailing the ongoing research, current trends and future challenges. Unlike other books,

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researcher involved in
the high-tech

research as it will
provide them the up-
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examines all aspects
of environmental site
assessment and
remediation and

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assessment and remediation practices, and industry standards. It examines pollution sources and the related impacts on drinking water supplies, the associated health risks, and how to protect water resources. The monitoring of surface

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improve drug
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the use of
dendrimers in
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systems has
attracted
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interest. In

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particular,
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researchers

have noted
that the
volume of a
dendrimer
increases when
it has a
positive
charge. If
this property
can be applied

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effectively,
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dendrimers

have enormous
potential in
drug delivery
systems,
directly
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from an
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