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Technological
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This book
examines the
development, use,
extraction, and

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recovery of rare earth metals. Rare earth elements (REEs) occupy a key role in daily life in industrial applications. They are one of the critical elements for energy and sustainable growth. REEs are

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utilized in many
modern electrical
and electronic

devices such as
smart phones,
computers, LED
lights etc.

Recovery of the
REEs from
secondary
resources

represents a way

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to meet the growing demand for electronic devices. Because of their rarity, utility, and importance, the recovery, utilization and recycling of rare earth metals is of utmost

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importance. This

book presents

both current

methods of

processing rare

earths from

primary and

secondary sources

and new, green

routes for their

isolation and

purification. The

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book also
addresses their
utilization, re-use,
reduction, and
recycling policies
that exist globally.

Applications in
metallurgy,
magnets,
ceramics,
electronics, and
chemical, optical,

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and nuclear
technologies are
discussed.

The proper
nutrition can aid
disease
prevention and
ensure an overall
healthy lifestyle.
In nutrition,
certain natural
and processed

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foods are particularly useful in achieving and maintaining health goals.

Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care is a comprehensive reference source

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for the latest
research findings
on food

components that
provide health
and medical
benefits, including
the prevention,
treatment, and
cures for
numerous
diseases.

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Featuring
extensive
coverage on
relevant areas
such as functional
foods, alternative
medicine, and
nutrition, this
publication is an
ideal resource for
medical
practitioners,

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nutritionists,
upper-level
students,
researchers, and
academicians
seeking
information on
the use of food
products in health
management.

March 01-03, 2018
London, UK. Key

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Topics:
Elementary
Concepts of
Organic
Chemistry,
Inorganic &
Organometallic
Compounds,
BioOrganic
Chemistry,
Carbohydrates
and Phenols,

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StereoChemistry,

Technological

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Analytical
techniques in

Organic

Chemistry,

Carboxylic acids

and its derivatives,

Chemical

Bonding,

Cheminformatics,

Green and

Environmental

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Technological
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Chemistry,
Polymers and
Monomers, Bio-
chemistry and
agricultural
chemistry,
Catalysis of
Organic Reactions,
Physical Organic
Chemistry, Natural
Product
Chemistry, Flow

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Technological
University
Chemistry,
Organic
Photochemistry,
Medicinal
Chemistry, Electro
Organic Chemistry
Encyclopedia of
Physical Organic
Chemistry, 6
Volume Set
Hybrid Polymer
Composite

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Materials
Technological
University
Nutraceuticals and
Innovative Food
Products for
Healthy Living and
Preventive Care
Microbial
Biotechnology
Drug
Development
Applications
Advances in

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**Organic
Farming:
Agronomic Soil
Management
Practices**
*focuses on the
integrated
interactions
between soil-pla
nt-microbe-
environment
elements in a*

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***functioning
ecosystem. It
explains
sustainable
nutrient
management
under organic
farming and
agriculture, with
chapters
focusing on the
role of nutrient***

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**management in
sustaining
global**

**ecosystems, the
remediation of
polluted soils,
conservation
practices,
degradation of
pollutants,
biofertilizers
and**

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***biopesticides,
critical
biogeochemical
cycles, potential
responses for
current and
impending
environmental
change, and
other critical
factors. Organic
farming is both***

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**challenging and
exciting, as its
practice of**

**“feeding the
soil, not the**

**plant provides
opportunity to
better**

**understand why
some growing
methods are
preferred over**

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others. In the simplest terms, organic growing is based on maintaining a living soil with a diverse population of micro and macro soil organisms.

Organic matter

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(OM) is maintained in the soil through the addition of compost, animal manure, green manures and the avoidance of excess mechanization. Presents a comprehensive

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***overview of
recent advances
and new
developments in
the field OF
research within
a relevant
theoretical
framework
Highlights the
scope of the
inexpensive and***

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**improved
management
practices**

***Focuses on the
role of nutrient
management in
sustaining the
ecosystems***

***The only
combined
organic
photochemistry***

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***and
photobiology
handbookAs
spectroscopic,
synthetic and
biological tools
become more
and more
sophisticated,
photochemistry
and
photobiology***

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***are merging-
making
interdisciplinary
research
essential.***

***Following in the
footsteps of its
bestselling
predecessors,
the CRC
Handbook of
Organic***

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Photochemistry

and Pho

Technical

plasmas have a

wide range of

industrial

applications.

The

Encyclopedia of

Plasma

Technology

covers all

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***aspects of
plasma
technology from
the
fundamentals to
a range of
applications
across a large
number of
industries and
disciplines.***

Topics covered

Page 29/173

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**include
nanotechnology,
solar cell
technology,
biomedical and
clinical
applications,
electronic
materials,
sustainability,
and clean
technologies.**

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***The book
bridges
materials
science,
industrial
chemistry,
physics, and
engineering,
making it a
must have for
researchers in
industry and***

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academia, as

well as those

working on appli

cation-oriented

plasma

technologies.

Also Available

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encyclopedia is

also available

through online

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***subscription,
offering a
variety of extra
benefits for
researchers,
students, and
librarians,
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**linking Saved
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marked lists**

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format options

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and Francis for
more**

**information or
to inquire about
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options and**

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s@tandf.co.uk

Rare-Earth

Metal Recovery

for Green

Technologies

15 Practice Sets

for UPSSSC

Preliminary

Eligibility Test

(UPPET) 2021

for Group C

Perspectives on

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**Interdisciplinary
Research**

Sustainable

Agriculture

Reviews 34

Allelopathy in

Ecological

Agriculture and

Forestry

Technology

Drivers: Engine

for Growth

Page 37/173

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The book covers preparation, designing and utilization of nanohybrid materials for biomedical applications. These materials can improve the effectiveness of drugs, promote high cell growth in

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Technological

University

*new scaffolds, and
lead to*

*biodegradable
surgical sutures.*

*The use of hybrid
magneto-plasmonic
nanoparticles may
lead to non-invasive
therapies. The most
promising materials
are based on silica
nanostructures,
polymers,*

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Technological
University,
bioresorbable
metals, liposomes,

biopolymeric

electrospun

nanofibers,

graphene, and

gelatin. Much

research focuses on

the development of

biomaterials for cell

regeneration and

wound healing

applications.

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Keywords:

Biomedical

Materials, Cell

Growth, Cell

Regeneration,

Wound Healing,

Surgical Sutures,

Non-invasive

Therapies , Drug

Transport, Tissue

Engineering,

Cardiovascular

Implants, Fracture

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Repair Implants,

Biodegradable

Materials, Hybrid

Magneto-plasmonic

Nanoparticles, Silica

Nanostructures,

Polymers,

Bioresorbable

Metals, Liposomes,

Biopolymeric

Electrospun

Nanofibers,

Graphene, Gelatin-

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based Hydrogels.

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University
This book provides

comprehensive

coverage on current

trends in marine

omics of various

relevant topics such

as genomics,

lipidomics,

proteomics,

foodomics,

transcriptomics,

metabolomics,

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*nutrigenomics,
pharmacogenomics
and toxicogenomics*

*as related to and
applied to marine*

*biotechnology,
molecular biology,
marine biology,
marine*

*microbiology,
environmental
biotechnology,
environmental*

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Organic
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University
*science,
aquaculture,
pharmaceutical
science and
bioprocess
engineering.
Taking an
interdisciplinary
approach, this new
volume brings
together innovative
research, new
concepts, and novel*

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developments in the application of new tools in green chemistry and sustainable technology. The diverse coverage includes chapters on ionic liquids as green solvents, an environmentally friendly approach to the synthesis and

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*biological
evaluation of α -
aminophosphonate
derivatives, the
application of
nanotechnology in
biological sciences
and green
chemistry, eco-
friendly polymers,
the effect of global
warming and
greenhouse gases*

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*on environmental
system, and more.*

Technological
University

*From Organic
Transformations to
Energy Applications*

*Men of Sciences &
Technology in India*

*Hydrogen Effects in
Catalysis*

Nanohybrids

Who is Who in

Indian Science 1969

Proceedings of

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European Organic

Chemistry Congress

2018

This book is the
result of
remarkable
contribution
from the experts
of
interdisciplinary
fields of Science
with

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comprehensive,
in-depth and up-
to-date research

and reviews. It

describes the

applications of

date palm for

food, medicine

and the

environmental

sectors. Date

palm is one of

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the oldest cultivated trees and its fruit has been a dietary staple around the world for many centuries. Date pulps contain dietary fibers and easily digestible sugars (70%),

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mainly glucose,
sucrose and

fructose. They

also contain

vitamins like

biotin, thiamine,

riboflavin,

ascorbic and

folic acid that

are important

for our body.

The date palm

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fruit has been

used in folk

remedies for the

treatment of

various

infectious

diseases, cancer

and immuno-

modulatory

activity. Date

stones and date

palm leaves are

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University
freely and
abundantly
available
biomass.

Therefore, the
renovation of
agricultural
biomass wastes
into activated
carbons for
drinking water
purification,

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wastewater
Technological
University
treatment,
treatment of
dyes, and metal-
ions from
aqueous
solution would
add value to
agricultural
commodities
which offer a
solution to

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environmental problems as well as reduce the cost of waste disposal.

The rapidly growing human population has increased the dependence on fossil fuel-based agrochemicals,

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such as
fertilizers and
pesticides, to
produce the
required
agricultural and
forestry
products. This
has exerted
great pressure
on non-
renewable fossil

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fuel resources,
which cannot
last indefinitely.

Not only do
agrochemicals
pollute the
environment,
but pests also
become
resistant to
pesticides. Thus,
present

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Technological
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agricultural
practices exploit
natural

resources, and
damage fauna
and flora and
agroecosystems.

One safe
alternative to
overcome these
problems is the
use of

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allelopathy to
sustain

development in
agriculture and
forestry and
maintain a clean
environment for
future
generations.

This book is the
Proceedings of
the III

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Technological
University
International
Congress on
Allelopathy in
Ecological
Agriculture and
Forestry, held on
August 18-21,
1998, at the
University of
Agricultural
Sciences,
Dharwad,

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Karnataka,
India, and
Technological
University
provides an
updated status
of current
allelopathy
research in
various leading
countries, with
the overall aim
of developing
new

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technologies for ecological agriculture and forestry in the 21st century. To date, no book on ecological agriculture has discussed these aspects, hence it is the first time that such

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information is
available. The
chapter

contributors are
leading

specialists in
their fields, and
all chapters
have been peer-
reviewed by
international
referees. This

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book will be
indispensable
for agricultural
scientists

(agronomists,
entomologists,
nematologists,
plant
pathologists,
horticulturists,
plant breeders,
agroforesters,

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foresters, soil
scientists),

bioscientists

(biochemists,

organic

chemists, plant

ecologists,

microbiologists

and

limnologists), en

vironmentalists,

graduate

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students and
farmers, as well
as for

organizations
engaged in
sustainable
agriculture and
organic
agriculture.

From first
principles to real-
world

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Technological
University

applications-
here is the first
comprehensive

guide to drug
discovery and
development

Modern drug
discovery and
development

require the
collaborative
efforts of

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specialists in a

broad array of

scientific,

technical, and

business

disciplines-from

biochemistry to

molecular

biology, organic

chemistry to

medicinal

chemistry,

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pharmacology to

Technological
marketing. Yet

University
surprisingly,

until now, there

were no

authoritative

references

offering a

complete, fully

integrated

picture of the

process. The

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only
comprehensive
guide of its kind,
this
groundbreaking
two-volume
resource
provides an
overview of the
entire sequence
of operations
involved in drug

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discovery and development-

from initial conceptualization to commercialization to clinicians and medical practitioners.

Volume 1: Drug Discovery

describes all the steps in the

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discovery
process,
including
conceptualizing
a drug, creating
a library of
candidates for
testing,
screening
candidates for in
vitro and in vivo
activity,

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conducting and
analyzing the

results of clinical
trials, and

modifying a
drug as

necessary.

Volume 2: Drug

Development

delves into the
nitty-gritty

details of

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optimizing the
synthetic route,
drug

manufacturing,
outsourcing, and
marketing-
including drug
coloring and
delivery
methods.

Featuring
contributions

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from a world-
class team of
experts, Drug

Discovery and

Development:

Features

fascinating case
studies,

including the

discovery and

development of

erythromycin

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analogs,
Tagamet, and
Ultiva
(remifentanil)
Discusses the
discovery of
medications for
bacterial
infections,
Parkinson's
disease,
psoriasis, peptic

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ulcers, atopic

dermatitis,

asthma, and

cancer Includes

chapters on

combinatorial

chemistry,

molecular

biology-based

drug discovery,

genomics, and

chemogenomics

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Drug Discovery
and
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Development is
an indispensable
working
resource for
industrial
chemists,
biologists,
biochemists,
and executives
who work in the

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pharmaceutical
Technological
industry.

University
Who's who in

Indian

Engineering and

Industry

Encyclopedia of

Plasma

Technology -

Two Volume Set

Design,

Fabrication, and

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Characterization
of
Multifunctional

Nanomaterials

An International

Directory

Metal-Organic

Frameworks for

Chemical

Reactions

Information And

Communication

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Technology In
Education:

Technological
University
Interactive Multi-
Media

Instructional

Strategies For T

eaching-

Learning

Process

Pollution has been a

developing problem

for quite some time in

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the modern world, and it is no secret how these chemicals negatively affect the environment. With these contaminants penetrating the earth's water supply, affecting weather patterns, and threatening human health, it is critical to study the interaction between commercially

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produced chemicals
and the overall
ecosystem.

Understanding the
nature of these
pollutants, the extent
in which they are
harmful to humans,
and quantifying the
total risks are a
necessity in protecting
the future of our
world. The Handbook
of Research on

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Emerging

Technological
Developments and

Environmental

Impacts of Ecological

Chemistry is an

essential reference

source that discusses

the process of chemical

contributions and their

behavior within the

environment.

Featuring research on

topics such as organic

pollution, biochemical

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University
technology, and food
quality assurance, this

book is ideally

designed for

environmental

professionals,

researchers, scientists,

graduate students,

academicians, and

policymakers seeking

coverage on the main

concerns, approaches,

and solutions of

ecological chemistry in

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the environment.

One of the major areas of emphasis in the field of in chemical science and engineering technology in recent years has been interdisciplinary research, a trend that promises new insights and innovations rooted in cross-disciplinary collaboration. This volume is designed for

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stepping beyond
traditional disciplinary

boundaries and

applying knowledge

and insights from

multiple fields. This

book, Chemical

Science and

Engineering

Technology:

Perspectives on

Interdisciplinary

Research, provides a

selection of chapters

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University

on interdisciplinary
research in chemical
science and
engineering
technology, taking a
conceptual, and
practical approach.

The book includes case
studies and supporting
technologies and also
explains the
conceptual thinking
behind current uses
and potential uses not

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yet implemented.

Technological

University
International experts
with countless years of

experience lend this
volume credibility.

Design, Fabrication,
and Characterization
of Multifunctional

Nanomaterials covers
major techniques for
the design, synthesis,
and development of
multifunctional
nanomaterials. The

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chapters highlight the main characterization techniques, including X-ray diffraction, scanning electron microscopy, high-resolution transmission electron microscopy, energy dispersive X-ray spectroscopy, and scanning probe microscopy. The book explores major

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synthesis methods and
functional studies,

including: Brillouin

spectroscopy; Temper
ature-dependent

Raman spectroscopic
studies; Magnetic,

ferroelectric, and
magneto-electric

coupling analysis;

Organ-on-a-chip

methods for testing
nanomaterials;

Magnetron sputtering

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University;

Positron
annihilation

spectroscopy to probe
defects in

nanomaterials;

Electroanalytic

techniques. This is an

important reference

source for materials

science students,

scientists, and

engineers who are

Access Free

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looking to increase
their understanding of
design and fabrication
techniques for a range
of multifunctional
nanomaterials.

Explains the major
design and fabrication
techniques and
processes for a range
of multifunctional
nanomaterials;

Demonstrates the
design and

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development of magnetic, ferroelectric, multiferroic, and carbon nanomaterials for electronic applications, energy generation, and storage; Green synthesis techniques and the development of nanofibers and thin films are also emphasized.

Drug Discovery and

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Development, Volume

2
Technological

University
Handbook of Research

on Emerging

Developments and

Environmental

Impacts of Ecological

Chemistry

Agronomic Soil

Management Practices

Methods and

Applications

Journal of Organic

chemistry : Volume 7

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Who's who in
Technology: Who's
who in biotechnology

Sustainable

Nanotechnology for

Environmental

Remediation

provides a single-

source solution to

researchers

working in

environmental,

wastewater

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*management,
biological and
composite
nanomaterials
applications. It
addresses the
potential
environmental risks
and uncertainties
surrounding the
use of
nanomaterials for
environmental*

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remediation, giving
an understanding

of their impact on

ecological

receptors in

addition to their

potential benefits.

Users will find

comprehensive

information on the

application of state-

of-the-art processes

currently available

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*to synthesize
advanced green
nanocomposite
materials and
biogenic
nanomaterials.
Other sections
explore a wide
range of promising
approaches for
green
nanotechnologies
and*

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*nanocomposites
preparations. Case
study chapters*

*connect materials
engineering and
technology to the
social context for a
sustainable
environment.*

*Applications and
different case
studies provide
solutions to the*

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*challenges faced by
industry, thus*

minimizing

negative social

impacts. Provides

information on the

use of biologically

mediated synthetic

protocols to

generate

nanomaterials

Discusses a wide

range of promising

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*?approaches?for?gr
een*

nanotechnologies

and

nanocomposites

preparations

Presents novel

fabrication

techniques for

bionanocomposites,

paving the way for

the development of

a new generation of

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*advanced materials
that can cope with*

spatiotemporal

*multi-variant
environments*

*This book is
designed for
students of GTU
studying the course
on Environmental
Science.*

*Maintaining a
holistic approach*

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throughout, the
book offers easy
and logical

comprehension for
understanding.

Concepts are
explained through
a variety of
illustrations which
will enable the
students to grasp
the subject easily.

Highlights: 1.

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*Complete coverage
of the new GTU
syllabus 2. Pictorial
representation of
topics for easy
retention and
understanding 3.*

*Variety of chapter-
end questions for
students to ace
their examinations*

*4. Additional
Solved Gujarat*

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Examination

*Questions from
previous year*

*This volume of
proceedings from
the conference
provides an
opportunity for
readers to engage
with a selection of
refereed papers*

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that were presented during the 6th International Conference NUiCONE'17. Researchers from industry and academia were invited to present their research work in the areas as listed below. The

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research papers
presented in these

tracks have been

published in this

proceeding with

the support of CRC

Press, Taylor &

Francis Group. This

proceeding will

definitely provide a

platform to

proliferate new

findings among the

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researchers.
*Chemical Process
Development and
Design
Technologies for
Green Environment
Advances in
Transportation
Engineering
Emerging Trends in
Water Resources
and Environmental
Engineering*

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*Construction
Technology and
Management
Concrete and
Structural
Engineering
Sustainable
Manufacturing
Processes Design
and Analysis of
Machine and
Mechanism Energy
Conservation and*

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Management
Technological
Chemical Science
University
and Engineering

Technology

Shaping Of Modern
Gujarat

Advances in Protein
Molecular and

Structural Biology
Methods

Date Palm for

Food, Medicine and
the Environment

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*Theory, Modelling
and Applications*

Polymer Science

Looking at the 19th

and 20th centuries,

and drawing on

scholarly sources, this

book traces the history

of Gujurat from the

time of the Indus

Valley civilization,

where Gujarati society

came to be a synthesis

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of diverse cultures, to
Technological
the state's encounters

with the Turks,

Marathas and the

Portuguese.

Winner of 2018

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MULTIVOLUME RE

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This encyclopedia

offers a

comprehensive and

easy reference to

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physical organic
chemistry (POC)

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methodology and

techniques. It puts

POC, a classical and

fundamental discipline

of chemistry, into the

context of modern and

dynamic fields like

biochemical

processes, materials

science, and molecular

electronics. Covers

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basic terms and theories into organic reactions and mechanisms, molecular designs and syntheses, tools and experimental techniques, and applications and future directions
Includes coverage of green chemistry and polymerization

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reactions Reviews
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different strategies for
molecular design and
synthesis of functional
molecules Discusses
computational
methods, software
packages, and more
than 34 kinds of
spectroscopies and
techniques for
studying structures
and mechanisms

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Explores applications
in areas from biology

to materials science

The Encyclopedia of

Physical Organic

Chemistry has won

the 2018 PROSE

Award for

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recognize the best

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contribution to

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library, for more
details visit Wiley

Online Library

Metal-Organic

Frameworks for

Chemical Reactions:

From Organic

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Chemistry Gujarat

Transformations to
Energy Applications
brings together the
latest information on
MOFs materials,
covering recent
technology in the field
of manufacturing and
design. The book
covers different
aspects of reactions
from energy storage
and catalysts,

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including preparation,
design and

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characterization

techniques of MOFs

material and

applications. This

comprehensive

resource is ideal for

researchers and

advanced students

studying metal-

organic frameworks in

academia and

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industry. Metal-
organic frameworks
(MOFs) are

nanoporous polymers
made up of inorganic
metal focuses
connected by natural
ligands. These entities
have become a hot
area of research
because of their
exceptional physical
and chemical

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properties that make them useful in different fields, including medicine, energy and the environment. Since combination conditions strongly affect the properties of these compounds, it is especially important to choose an appropriate synthetic

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technique that
produces a product
with homogenous

morphology, small
size dispersion, and
high thermal stability.

Covers the synthetic
advantages and
versatile applications
of metal-organic
frameworks (MOFs)
due to their organic-
inorganic hybrid

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nature and unique
porous structure

Includes energy
applications such as
batteries, fuel storage,
fuel cells, hydrogen
evaluation reactions
and super capacitors
Features information
on using MOFs as a
replacement to
conventional
engineering materials

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because they are
Technological
lightweight, less
University
costly, environmentall
y-friendly and
sustainable
Chemical Research
Faculties
Handbook of Polymer
Degradation
Who's who in
Technology Today
Handbook of
Engineering

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Polymeric Materials
Technological
Challenges and
Developmental Trends
Future Materials for
Biomedical
Applications

***An insightful
analysis of
confined
chemical systems
for theoretical
and experimental***

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scientists
Technological
University
**Chemical
Reactivity in
Confined
Systems: Theory
and Applications
presents a
theoretical basis
for the molecular
phenomena
observed in
confined spaces.
The book**

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highlights state-of-the-art theoretical and computational approaches, with a focus on obtaining physically relevant clarification of the subject to enable the reader to build an

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Chemistry, Gujarat

Technological

University

***appreciation of
underlying
chemical
principles. The
book includes
real-world
examples of
confined systems
that highlight
how the
reactivity of
atoms and
molecules change***

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***upon
encapsulation.
Chapters include
discussions on
recent
developments
related to several
host-guest
systems,
including
cucurbit[n]uril,
ExBox+4,
clathrate***

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**hydrates, octa
acid cavita**

metal organic

frameworks

(MOFs), covalent

organic

frameworks

(COFs), zeolites,

fullerenes, and

carbon

nanotubes.

Readers will learn

how to carry out

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***new calculations
to understand
the***

***physicochemical
behavior of
confined
quantum***

***systems. Topics
covered include:***

***A thorough
introduction to
global reactivity
descriptors,***

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***including
electronegativity,
hardness, and
electrophilicity
An exploration of
the Fukui
function, as well
as dual
descriptors,
higher order
derivatives, and
reactivity
through***

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**information
theory A practical
discussion of spin
dependent
reactivity and
temperature
dependent
reactivity Concise
treatments of
population
analysis, reaction
force, electron
localization**

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***functions, and
the solvent effect
on reactivity***

Perfect for

academic

researchers and

graduate

students in

theoretical and

computational

chemistry and

confined

chemical

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***systems,
Chemical
Reactivity in
Confined
Systems: Theory
and Applications
will also earn a
place in the
libraries of
professionals
working in the
areas of
catalysis,***

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**supramolecular
chemistry, and
porous materials.**

**This book covers
hydrogen effects
in catalysis in the
broadest sense,
from surface
science to
industrial
applications. It
draws the
attention of the**

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***catalysis
community to the
importance of the
phenomena of
hydrogen effects
both in the
science and
technology of
catalysis.
Presenting
practical
information on
new and***

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**conventional
polymers and**

products as

alternative

materials and

end-use

applications, this

work details

technological

advancements in

high-structure

plastics and

elastomers,

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**functionalized
materials, and**

their product

applications. The

book also

provides a

comparison of

manufacturing

and processing

techniques from

around the world.

It emphasizes

product

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**characterization,
performance**

attributes and

structural

properties.

Fundamentals

and Practical

Applications

Environmental

Science:

Additional Solved

Gujarat Technical

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**Examination
Questions
Biological,
Pharmaceutical,
and
Macromolecular
Systems
CRC Handbook of
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Photochemistry
and
Photobiology,
Third Edition -**

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**Two Volume Set
Advances in**

Organic Farming

Proceedings of

the 6th Nirma

University

International

Conference on

Engineering

(NUiCONE 2017),

November 23-25,

2017,

Ahmedabad,

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India

Hybrid Polymer
Composite
Materials:
Applications
provides a clear
understanding
of the present
state of-the-art
and the growing
utility of hybrid
polymer

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composite materials. It includes contributions from world renowned experts and discusses the combination of different kinds of materials procured from

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diverse resources. In addition, this volume from the four volume series provides deep insights on the potential of hybrid polymer composite materials for advanced

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applications.

Provides a clear understanding of the present state-of-the-art and the growing utility of hybrid polymer composite materials

Includes contributions

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from world
renowned
experts and
discusses the
combination of
different kinds
of materials
procured from
diverse
resources
Discusses their
synthesis,

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chemistry,
Technological
processing,
University
fundamental
properties, and
applications
Provides insights
on the potential
of hybrid
polymer
composite
materials for
advanced

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applications

"Covers recent
advances in

polymer
degradation and
stabilization.

Focuses on the
basics of photo-
and bio-
degradability.

Delineates
special and

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general
environmental
parameters such
as solar
irradiation,
temperature,
and
agrochemical
exposure.

Surveys plastic
waste disposal
strategies such

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as recycling,
incineration,
chemical
recovery by
pyrolysis,
Advances in
Protein
Molecular and
Structural
Biology Methods
offers a
complete

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overview of the
latest tools and
methods

applicable to the
study of proteins
at the molecular
and structural
level. The book

begins with

sections

exploring tools

to optimize

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recombinant
protein
expression and
biophysical
techniques such
as fluorescence
spectroscopy,
NMR, mass
spectrometry,
cryo-electron
microscopy, and
X-ray

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crystallography.

It then moves

towards

computational

approaches,

considering

structural

bioinformatics,

molecular

dynamics

simulations, and

deep machine

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learning
technologies.
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The book also covers methods applied to intrinsically disordered proteins (IDPs) followed by chapters on protein interaction

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networks,
protein function,
and protein
design and
engineering. It
provides
researchers with
an extensive
toolkit of
methods and
techniques to
draw from when

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conducting their own experimental work, taking them from foundational concepts to practical application. Presents a thorough overview of the

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latest and
emerging
methods and
technologies for
protein study

Explores
biophysical
techniques,
including
nuclear
magnetic
resonance, X-ray

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crystallography,
Technological
and cryo-

University
electron

microscopy

Includes

computational

and machine

learning

methods

Features a

section

dedicated to

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tools and
techniques
specific to
studying
intrinsically
disordered
proteins
Technical
Manpower
Marine OMICS
Indian Estuaries
Sustainable

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Nanotechnology
for
Environmental
Remediation
Principles and
Applications
Chemical
Reactivity in
Confined
Systems

**The new volume
takes an**

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**interdisciplinary
look at current
technical challenges
and recent
developmental
trends in microbial
biotechnology. It
covers an avalanche
of new information
available through
research by
focusing on a broad**

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**spectrum of issues
on different
microorganisms**

**and their recent
applications and
implications in
agriculture, soil
science and
forestry, industry,
and public health
and medicine.**

Microbes present

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**in our immediate
environment have a
direct or indirect**

**influence leading to
either a harmful or
beneficial effect.**

Microbial

Biotechnology:

Technological

Challenges and

Developmental

Trends is divided

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**into four major
sections that focus
on Part I:**

Antimicrobial

Agents: Role and

Applications in

Medicine and

Health Care Part

II: Role of

Microorganisms in

Agriculture and

Plant

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**Biotechnology Part
III: Microbial
Enzymes and Their
Potential Industrial
Applications Part
IV:**

**Microorganisms in
Environment: Role
and Industrial
Applications Topic
include organic
chemistry, biomass**

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**conversion, optimal
production**

processes for

different microbes,

screening methods,

and application of

omics approaches

such as (meta)

genomics,

proteomics, and

metabolomics, or

other biotechnology

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tools, to provide a

deeper

understanding of

the microbial-based

new and emerging

products, trends,

processes, and

technologies. The

chapters present

unbiased original

research results on

microbes by

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**incorporating case
studies wherever
appropriate.**

**Providing research
findings applicable
to the development
of new
methodologies,
applications, and
technologies, the
book will be a
valuable resource**

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**for people working
in various fields of
microbiology.**

**Green Chemistry
and Sustainable
Technology**