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PDF Engineering
Chemistry By
Rama Devi
*Engineering
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Rama Devi*

Food Engineering
Handbook, Two-
Volume Set provides a
stimulating and up-to-
date review of food
engineering phenomena.
It also addresses the
basic and applied
principles of food

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engineering methods used in food processing operations around the world. Combining theory with a practical, hands-on approach, this set examines the thermophysical properties and modeling of selected processes such as chilling, freezing, and dehydration, and covers the key aspects of food

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engineering, from mass and heat transfer to steam and boilers, heat exchangers, diffusion, and absorption.

Comprised of Food Engineering Handbook: Food Engineering Fundamentals and Food Engineering Handbook: Food Process Engineering, this comprehensive resource: Explains the

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interactions between
different food

constituents that might
lead to changes in food
properties Describes the
characterization of the
heating behavior of
foods, their heat
transfer, heat
exchangers, and the
equipment used in each
food engineering
method Discusses
rheology, fluid flow,

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evaporation, distillation,
size reduction, mixing,

emulsion, and
encapsulation Provides

case studies of

solid-liquid and

supercritical fluid

extraction and food

behaviors Explores

fermentation, enzymes,

fluidized-bed drying,

and more Presenting

cutting-edge

information on new and

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emerging food engineering processes, Food Engineering Handbook, Two-Volume Set offers a complete reference on the fundamental concepts, modeling, quality, safety, and technologies associated with food engineering and processing operations today.

First published in 2000.

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Routledge is an imprint of Taylor & Francis, an informa company.

Removal of Emerging Contaminants from Wastewater through Bio-nanotechnology showcases profiles of the nonregulated contaminants termed as “emerging contaminants, which comprise industrial and household persistent

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toxic chemicals,
pharmaceuticals and
personal care products
(PPCPs), pesticides,
surfactants and
surfactant residues,
plasticizers and
industrial additives,
manufactured
nanomaterials and
nanoparticles,
microplastics, etc. that
are used extensively in
everyday life. The

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occurrence of

“emerging contaminants
in wastewater, and their
behavior during
wastewater treatment
and production of
drinking water are key
issues in the reuse and
recycling of water
resources. This book
focuses on the
exploitation of Nano-
biotechnology inclusive
of the state-of-the-art

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remediate strategies to d
egrade/detoxify/stabilize
toxic and hazardous
contaminants and
restore contaminated
sites, which is not as
comprehensively
discussed in the existing
titles on similar topics
available in the global
market. In addition, it
discusses the potential
environmental and
health hazards and

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ecotoxicity associated with the widespread distribution of emerging contaminants in the water bodies. It also considers the life cycle assessment (LCA) of emerging (micro)-pollutants with suitable case studies from various industrial sources. Provides natural and ecofriendly solutions to deal with

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the problem of pollution
Details underlying
mechanisms of nanotech
nology-associated
microbes for the
removal of emerging
contaminants Describes
numerous successful
field studies on the
application of bio-
nanotechnology for eco-
restoration of
contaminated sites
Presents recent

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advances and challenges
in bio-nanotechnology
research and

applications for
sustainable development

Provides authoritative
contributions on the
diverse aspects of bio-
nanotechnology by
world's leading experts

Basic Electrical
Engineering
World Guide to
Universities -

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Internationales
Rama Devi
Universitäts-Handbuch
INIS Atomindeks
Waste-to-Energy
Approaches Towards
Zero Waste
With Applications
Refining Biomass
Residues for Sustainable
Energy and Bioproducts
Polymers are
one of the
most

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fascinating
materials of
the present
era finding
their
applications
in almost
every aspects
of life.
Polymers are
either
directly

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available in nature or are chemically synthesized and used depending upon the targeted applications. Advances in polymer science and the

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introduction
of new

polymers have
resulted in
the
significant
development of
polymers with
unique
properties.

Different
kinds of

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polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This

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4-partset of
books contains
precisely
referenced
chapters,
emphasizing
different
kinds of
polymers with
basic
fundamentals
and

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practicality
for

application in
diverse

pharmaceutical
technologies.

The volumes
aim at

explaining
basics of

polymers based
materials from

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different
resources and
their
chemistry
along with
practical
applications
which present
a future
direction in
the
pharmaceutical

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industry. Each volume offer deep insight into the subject being treated.

Volume 1:
Structure and
Chemistry

Volume 2:
Processing and
Applications

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Volume 3:
Biodegradable
Polymers

Volume 4:
Bioactive and
Compatible Syn
thetic/Hybrid
Polymers

Group theory
helps readers
in
understanding

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the energy
spectrum and
the degeneracy
of systems
possessing
discrete
symmetry and
continuous
symmetry. The
fundamental
concepts of
group theory

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and its applications are presented with the help of solved problems and exercises. The text covers two essential aspects of group theory, namely

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discrete
groups and Lie
groups.

Important
concepts
including
permutation
groups, point
groups and
irreducible
representation
related to

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discrete groups are discussed with the aid of solved problems. Topics such as the matrix exponential, the circle group, tensor products,

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angular
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momentum

algebra and
the Lorentz
group are
explained to
help readers
in
understanding
the quark
model and
theory

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composites.

Real-life
applications
including
molecular
vibration,
level
splitting
perturbation,
crystal field
splitting and
the orthogonal

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group are also
covered. Appli-
cation-
oriented
solved
problems and
exercises are
interspersed
throughout the
text to
reinforce
understanding

Bookmark File
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of the key
concepts.

Providing
comprehensive
coverage on
biofuel crop
production and
the
technological,
environmental
and resource
issues

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associated
with a

sustainable
biofuel

industry, this
book is ideal
for

researchers
and industry
personnel.

Beginning with
an

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introduction
to biofuels
and the
challenges
they face, the
book then
includes
detailed
coverage on
crops of
current
importance or

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with high
future

prospects,
including
sections on
algae, sugar
crops and
grass, oil and
forestry
species. The
chapters focus
on the

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genetics,
Rama Devi

breeding,
cultivation,
harvesting and
handling of
each crop.

A Handbook
(Ten-Volume
Set)

Technology,
Advances, Life
Cycle

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Assessment,
Rama Devi
and Economics

Who's who in
Technology
Today
Production,
Physiology and
Genetics
Group Theory
for Physicists
Internationale
s Universitäts-

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Handbuch
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This book discusses an emerging area in computer science, IT and management, i.e., decision sciences and management. It includes studies that employ various computing techniques like machine learning to generate

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insights from huge amounts of available data; and which explore decision-making for cross-platforms that contain heterogeneous data associated with complex assets; leadership; and team coordination. It also reveals the

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advantages of using decision sciences with management-oriented problems. The book includes a selection of the best papers presented at the International Conference on Decision Science and Management 2018 (ICDSM

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2018), held at the
Inter-science
Institute of
Management and
Technology (IIMT),
Bhubaneswar,
India.

Waste-to-Energy
Approaches
Towards Zero
Waste:
Interdisciplinary
Methods of
Controlling Waste

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provides a comprehensive overview of the key technologies and approaches to achieve zero waste from energy. The book emphasizes the importance of an integrated approach to waste-to-energy using fundamental concepts and

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principles, and presents key methods, their applications, and perspectives on future development. The book provides readers with the tools to make key decisions on waste-to-energy projects from zero-waste principles, while

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incorporating
sustainability and
life cycle
assessments from
financial and
environmental
perspectives.
Waste-to-Energy
Approaches
Towards Zero
Waste:
Interdisciplinary
Methods of
Controlling Waste

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offers practical guidance on achieving energy with zero waste ideal for researchers and graduate students involved in waste-to-energy and renewable energy, waste remediation, and sustainability. Provides an integrated

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approach for waste-to-energy using zero waste concepts Offers decision-making guidance on selecting the most appropriate approach for each project Presents the sustainability and life cycle assessment of WTE technologies on

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financial and
environmental
grounds
Research Paper
(postgraduate)
from the year 2016
in the subject
Engineering -
Chemical
Engineering, grade:
A, Andhra
University (College
of Engineering),
course: Chemical

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Engineering,
language: English,
abstract: The aim
of the present
study is to optimize
and model the
removal of Two Azo
and Two Anthra-
Quinone Dyes from
the dye effluent
using Tunic of
Allium cepa
derived activated
carbon using RSM.

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The relationship between dye removal efficiency and three main independent parameters including Temperature, Solution pH and Adsorbent Dosage were evaluated by applying central composite design (CCD) and

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Box-Behnken design (BBD).

Water Has the high importance in industrial and domestic areas, Where Industries consume a lot of water and releases highly toxic effluents which are really harmful to the environment containing the

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toxic metals like Cr, Cd, Pd, Ti, Zn and many harmful dyes etc. Textile effluent dyes are targeted in the present work which exist in two forms (i) True Color (ii) Apparent color. There are various dyes used in the textile industries among which

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majority of dye stuffs are majorly based on azodyes which are used to dye cotton fabric and anthra-quinone dyes. Azo Dyes: Determination of azo dyes are categorized by the presence of (-N=N-) azo group as chromophore. Azo dyes are

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generally found in synthetic dye classes. Previously azo dyes were applied to cotton which involves the reactions with chemical components which reacts to form the dye into the fiber or on the surface. Primuline red and Para red fall into

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this group of azo dyes introduces in 1880's. Azo dyes are mostly used in cotton fabric.

Anthra-quinone dyes:

Determination of anthra-quinone dyes are characterized by carbonyl group ($>C=O$) as chromophore.

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Other names of anthra-quinone are anthrachinon, dioxoanthracene and different trade names like Corbit and Hoelite. The dyes like Saffranin, indigo carmine, Alizarin, Red S, Crystal violet were chosen here from the textile effluent for the removal.

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The source materials used here are natural powders namely Tunic of Allium cepa and its activated carbon.

Biofuel Crops
Journal of the
Indian Chemical
Society

Universities
Handbook

Physics Briefs

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Proceedings of
ICDSM 2018

Indian Science
Abstracts

***Food Engineering
Handbook: Food
Engineering
Fundamentals
provides a
stimulating and
up-to-date review
of food
engineering***

***phenomena.
Combining theory
with a practical,
hands-on
approach, this
book covers the
key aspects of
food engineering,
from mass and
heat transfer to
steam and
boilers, heat
exchangers,***

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***diffusion, and
absorption. A
complement to
Food Engineering
Handbook: Food
Process
Engineering, this
text: Explains the
interactions
between different
food constituents
that might lead to
changes in food***

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properties

Describes the

characterization

of the heating

behavior of foods,

their heat

transfer, heat

exchangers, and

the equipment

used in each food

engineering

method Discusses

rheology, fluid

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*flow, evaporation,
and distillation*

*and includes
illustrative case
studies of food
behaviors*

*Presenting
cutting-edge
information, Food
Engineering
Handbook: Food
Engineering
Fundamentals is*

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PDF Engineering
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***an essential
reference on the
fundamental
concepts
associated with
food engineering
today.***

***The utilization of
various types of
biomass residue
to produce
products such as
biofuels and***

biochemicals means biorefinery technology using biomass residues may become a one-stop solution to the increasing need for sustainable, non-fossil sources of energy and chemicals.

Refining Biomass

Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment and Economics focuses on the various biorefineries currently available and

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*discusses their
uses, challenges,
and future
developments.*

*This book
introduces the
concept of
integrated
biorefinery
systems, as well
as their operation
and feedstock
sourcing. It*

explores the specificities, current developments, and potential end products of various types of residue, from industrial and municipal to agricultural and marine, as well as residue from food

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industries.

**Sustainability
issues are
discussed at
length, including
life cycle
assessment,
economics, and
cost analysis of
different
biorefinery
models. In
addition, a**

Bookmark File
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Chemistry By
Rama Devi
***number of global
case studies***

examine

successful

***experiences in
different regions.***

***This book is an
ideal resource for
researchers and
practitioners in
the field of
bioenergy and
waste***

Bookmark File
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***management who
are looking to
learn about
technologies
involved in
residue
biorefinery
systems, how to
reduce their
environmental
impacts, and how
to ensure their
commercial***

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***viability. Explores
a range of
different
biorefinery
categories, such
as industrial,
agricultural, and
marine biomass
residues Includes
a Life Cycle
Assessment of
biorefinery
models, in***

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***addition to costs
and market
analysis. Features
case studies from
around the world
and is written by
an international
team of authors
This book is
designed based
on revised
syllabus of
Gujarat***

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**Technological
University,**

**Gujarat (AICTE
model**

**curriculum) for
under-graduate
(B.Tech/BE)**

**students of all
branches, those
who study Basic
Electrical**

**Engineering as
one of the subject**

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***in their
curriculum. The
primary goal of
this book is to
establish a firm
understanding of
the basic laws of
Electric Circuits,
Network
Theorems,
Resonance, Three-
phase circuits,
Transformers,***

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***Electrical
Machines and
Electrical
Installation.
21st Century
Nanoscience - A
Handbook
Handbook of
Polymers for
Pharmaceutical
Technologies,
Structure and
Chemistry***

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***Removal of
Emerging
Contaminants
from Wastewater
through Bio-
nanotechnology
American Men &
Women of
Science
The sciences and
engineering. B
Data Engineering
and***

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***Communication
Technology***

The problems related to the process of industrialisation such as biodiversity depletion, climate change and a worsening of

health and living conditions, especially but not only in developing countries, intensify. Therefore, there is an increasing need to search

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for integrated solutions to make development more sustainable. The United Nations has acknowledged the problem and approved the "2030

Agenda for Sustainable Development". On 1st January 2016, the 17 Sustainable Development Goals (SDGs) of the Agenda officially came into force. These

goals cover
the three
dimensions of
sustainable
development:
economic
growth, social
inclusion and
environmental
protection.

The
Encyclopedia

Bookmark File
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of the UN
Sustainable
Development
Goals comprehe
nsively
addresses the
SDGs in an
integrated
way. It
encompasses 17
volumes, each
devoted to one

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Chemistry By
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of the 17
SDGs. This
volume is
dedicated to
SDG 6 "Ensure
availability
and
sustainable
management of
water and
sanitation for
all". Water

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and sanitation
are

fundamental to
human well-
being.

Integrated
water

resources

management is
essential to

ensure

availability

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and
Rama Devi

sustainable
management of
water and
sanitation for
all and to the
realization of
Sustainable
Development.
Concretely,
the defined
targets are:

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Achieve
universal and
equitable
access to safe
and affordable
drinking water
for all

Achieve access
to adequate
and equitable
sanitation and
hygiene for

all and end
open
defecation,
paying special
attention to
the needs of
women and
girls and
those in
vulnerable
situations
Improve water

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quality by
reducing
pollution,
eliminating
dumping and
minimizing
release of
hazardous
chemicals and
materials,
halving the
proportion of

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untreated
wastewater and
substantially
increasing
recycling and
safe reuse
globally
Substantially
increase water-
use efficiency
across all
sectors and

Bookmark File
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ensure
sustainable
withdrawals
and supply of
freshwater to
address water
scarcity and
substantially
reduce the
number of
people
suffering from

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water scarcity
Implement
integrated
water
resources
management at
all levels,
including
through
transboundary
cooperation as
appropriate

Bookmark File
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Protect and
restore water-
related
ecosystems,
including
mountains,
forests,
wetlands,
rivers,
aquifers and
lakes Expand
international

Bookmark File
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cooperation
and capacity-
building
support to
developing
countries in
water- and san-
itation-
related
activities and
programmes,
including

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water
harvesting,
desalination,
water
efficiency,
wastewater
treatment,
recycling and
reuse
technologies
Support and
strengthen the

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participation
of local
communities in
improving
Uwater and
sanitation
management
Editorial
Board Ulisses
M. Azeiteiro,
Anabela Marisa
Azul, Luciana

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Brandli,
Dominique
Darmendrail,
Despo Fatta-Ka
ssinos, Walter
Leal Filho,
Susan Hegarty,
Amanda Lange
Salvia, Albert
Llausàs, Paula
Duarte Lopes,
Javier

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Marugán,
Fernando

Morgado,

Wilkister

Nyaora Moturi,

Karel F.

Mulder, Alesia

Dedaa Ofori,

Sandra Ricart

This edition

profiles

living persons

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in the
physical and
biological
fields, as
well as public
health
scientists,
engineers, mat
hematians,
statisticians,
and computer
scientists.

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Contributions
from 80 world-
renowned
authorities
representing a
broad
international
background
lend Fungal
Biotechnology
in
Agricultural,

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Food, and
Environmental
Applications
first-class
information on
the biotechnol
ogical
potential of e
ntomopathogeni
c fungi and
ergot
alkaloids,

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applications
of Trichoderma
in disease
control, and
the d

Handbook of
Composites
from Renewable
Materials,
Polymeric
Composites
Proceedings of

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Chemistry By
ICDECT 2020

Pama Devi
INIS Atomindex

Who's who in

Technology

Today:

Chemical and

bioscience

technologies

Food

Engineering

Handbook, Two

Volume Set

Bookmark File
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Chemistry By
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The World of
Learning 2001

This up-to-date reference is the most comprehensive summary of the field of nanoscience and its applications. It begins with

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**fundamental
properties at
the nanoscale
and then goes
well beyond
into the
practical
aspects of the
design,
synthesis, and
use of
nanomaterials**

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in various industries. It emphasizes the vast strides made in the field over the past decade - the chapters focus on new, promising directions as well as

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**emerging
theoretical
and
experimental
methods. The
contents
incorporate
experimental
data and
graphs where
appropriate,
as well as**

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supporting
tables and
figures with a
tutorial
approach.
This book
includes
selected
papers
presented at
the 4th
International

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**Conference on
Data
Engineering
and
Communication
Technology
(ICDECT 2020),
held at
Kakatiya
Institute of
Technology &
Science,**

Bookmark File
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Chemistry By
Warangal,
Rama Devi
India, during
25-6 September
2020. It
features
advanced, mult
idisciplinary
research
towards the
design of
smart
computing,

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information
systems and
electronic
systems. It
also focuses
on various
innovation
paradigms in
system
knowledge,
intelligence
and

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sustainability
which can be
applied to
provide viable
solutions to
diverse
problems
related to
society, the
environment
and industry.
Due to rapid

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Rama Devi

**urbanization
and
development,
water get
polluted by
the noxious
waste released
from
industrial,
sewage and
agricultural
runoffs.**

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Rama Devi

**Sustainable
Materials for
Sensing and
Remediation of
Noxious
Pollutants
covers two
most widely
used aspects
in the field
of wastewater
i.e. sensing**

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and rapid
remediation
with a
possible
solution of
successful
technology com
mercialization
. Chapters
include
information on
low cost

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**materials as
sensing and
remediating
agents for the
rapid removal
of noxious
impurities
from
wastewater. It
includes
chapters on
the sensing of**

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noxious

metals, low

cost

adsorbents for

the removal of

noxious

impurities

i.e. inorganic

(metal ions)

and organic

(dyes) .

Additional

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chapters
include future
/upcoming
scopes of work
and one
chapter on the
general
introduction
of the field.
The book
content will
be technical

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and focused
for the
audience like
graduate
students,
academicians,
researchers
and industrial
professionals.
Sustainable
Materials for
Sensing and

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Noxious**

**Pollutants is
single
reference
source for
environmental
scientists and
engineers
interested in
low cost
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remediation
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strategies.

Assists
readers in
developing new
strategies to
address the
issues related
to sensing and
remediation
activities
Includes low

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**cost materials
for sensor and
adsorbent
development
allowing
professionals
to make
decisions
based on
economic
considerations
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**alternatives
for the
development of
socioeconomica
lly
sustainable
products for
sensing and
remediation
application
Environmental
Pollution and**

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**Strategies for
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(Volume Two)

**Decolorization
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Two Anthra-

Quinone Dyes

from the Dye

Effluent using

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**Tunic of
Allium cepa
derived
activated
carbon. The
Response
Surface
Methodology**

**Excerpta
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This book presents state-of-the-art environmental remediation processes.

Environmental protection and management is a global concern, especially in the context of industrial regions. Over the years, several

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conventional,
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engineering-based
physicochemical
decontamination
methods have used
in the remediation of
polluted sites.
However, these
methods are
expensive and have
limited efficiency.
Drawing on research
and examples from
around the world,

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this book offers a comprehensive review of and insights into green technologies and sustainable remediation alternatives. It discusses the emerging importance of nanotechnology, chemo and biosensors, indicator species, microbe-

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based remediation of
organic compounds,
and ex-situ
remediation
methods. Addressing
the growing global
need for a holistic
overview of the
environmental
remediation of
polluted sites, it will
appeal to teachers,
researchers,
scientists, capacity

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builders, and policymakers. It also serves as additional reading material for undergraduate and graduate students of biotechnology and environmental sciences.

The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes

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that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials.

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The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. This 6th volume Handbook is solely focused on Polymeric Composites. Some of

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natural and synthetic
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in tissue engineering;
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application in
bioethanol
production; principle
renewable

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application of
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biocomposites for
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preparation,

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characterization and
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hydrogels for
absorption of
antifungal drugs
using molecular
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delivery systems
composed of
chitosan; eco-friendly
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a life cycle
perspective; plant pol
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unit systems for
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based polymer
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in wastewater
treatment; novel

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lignin-based materials as a products for various applications; biopolymers from renewable resources and thermoplastic starch matrix as polymer units of multi-component polymer systems for advanced applications; chitosan composites:

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preparation and applications in removing water pollutants and recent advancements in biopolymer composites for addressing environmental issues.

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Methods of
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presents the
state of art of
the several**

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advanced approaches to beneficiation of coal. The influence of recent technology attains the advantages of processing coal, purification studies,

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rheological
behavior, and
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significantly
to the
enrichment in
the in depth

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knowledge not
only in context
of working
knowledge, but
also future
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technology.
Describes
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**chemical
processes;
Examines
rheological
behavior and
pipeline
transport of
coal water
slurry
resulting in
reduction of
overall
transportation**

cost of coal;
Illustrates
synergistic
effect of
natural and
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system in the
stabilization
of high
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physics as
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Features:
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and real
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applications.
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professionals,
governmental
scientists, and
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work is
impacted by
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resource in

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fields impacted
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extend from
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engineering to
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medicine,
electrical
engineering,
pharmaceutical
science,
computer
technology,
aerospace
engineering,
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engineering,
food science,

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and beyond.
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Decolorization
of Two Azo and
Two Anthra-
Quinone Dyes
from the Dye
Effluent using
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cepa derived
activated
carbon. The
Response
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