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# Jain And Engineering Chemistry 2013 Edition

The 2nd volume on applications with discuss the various aspects of state-of-the-art, new challenges and opportunities for gas and vapor separation of

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polymer membranes,  
membranes for  
wastewater treatment,  
polymer electrolyte  
membranes and  
methanol fuel cells,  
polymer membranes for  
water desalination,  
optical, electrochemical  
and anion / polyanion  
sensors, polymeric  
pervaporation  
membranes, organic-  
organic separation,

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biopolymer electrolytes  
for energy devices,  
carbon nanoparticles for  
pervaporation  
polymeric membranes,  
and mixed matrix  
membranes for  
nanofiltration  
application.

The purpose of this  
book is to offer  
innovative applications  
of the distillation  
process. The book is

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divided in two main sections, one containing chapters that deal with process design and calculations, and the other, chapters that discuss distillation applications. Moreover, the chapters involve wide applications as in fruit spirits production, in organic liquid compounds produced by oil and fats cracking,

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energy evaluation in  
distillation processes,  
and applicability of solar  
membrane distillation. I  
believe that this book  
will provide new ideas  
and possibilities of the  
development of  
innovative research lines  
for the readers.

Exponential growth of  
the worldwide  
population requires  
increasing amounts of

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water, food, and energy.

However, as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes, technological solutions are necessary to secure sustainable supplies. In direct response to this reality, this book focuses on the water-energy-

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food nexus and  
describes in depth the  
challenges and processes  
involved in efficient  
water and energy  
production and  
management,  
wastewater treatment,  
and impact upon food  
and essential  
commodities. The book  
is organized into 4  
sections on water, food,  
energy, and the future of

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sustainability,  
highlighting the  
interplay among these  
topics. The first section  
emphasizes water  
desalination, water  
management, and  
wastewater treatment.  
The second section  
discusses cereal  
processing, sustainable  
food security, bioenergy  
in food production,  
water and energy



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consumption in food processing, and mathematical modeling for food undergoing phase changes. The third section discusses fossil fuels, biofuels, synthetic fuels, renewable energy, and carbon capture. Finally, the book concludes with a discussion of the future of sustainability, including coverage of

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the role of molecular  
thermodynamics in  
developing processes  
and products, green  
engineering in process  
systems, petrochemical  
water splitting,  
petrochemical  
approaches to solar  
hydrogen generation,  
design and operation  
strategy of energy-  
efficient processes, and  
the sustainability of

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process, supply chain,  
and enterprise.

Introducing the  
emerging field  
carbohydrate  
nanostructures, this  
book will be a unique  
resource for interested  
researchers to learn a  
range of methods of  
applying the field to  
their own work. Greater  
access, as well as greater  
collaboration, to this

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new interdisciplinary field is intended for both synthetic carbohydrate chemists and researchers in nanoscience related fields. It covers: the main types of nanostructures presently under investigation for modification by carbohydrates, including nanoparticles, nanorods, magnetic

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particles, dendrimers,  
nanoporous, and surface  
confined structures  
overview and  
introduction to the field  
of carbohydrate  
nanotechnology, and  
especially its  
applications to its  
biological systems  
Provides a unique  
resource for researchers  
to learn about the  
techniques used to

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characterize the physical  
and biological properties  
of carbohydrate-

modified nanostructures

A comprehensive review

of the field of materials

that shield people and

sensitive electronic

devices from

electromagnetic fields

Advanced Materials for

Electromagnetic

Shielding offers a

thorough review of the

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most recent advances in the processing and characterization of the electromagnetic shielding materials. In this groundbreaking book, the authors—*noted experts in the field*—discuss the fundamentals of shielding theory as well as the practice of electromagnetic field measuring techniques

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and systems. They also explore applications of shielding materials used as absorbers of electromagnetic radiation, or as magnetic shields and explore coverage of new advanced materials for EMI shielding in aerospace applications. In addition, the text contains methods of preparation and



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applicability of metal foams. This comprehensive text examines the influence of technology on the micro-and macrostructure of polymers enabling their use in screening technology, technologies of shielding materials based on textiles, and analyses of its effectiveness in

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screening. The book also details the method of producing nanowires and their applications in EM shielding. This important resource: Explores the burgeoning market of electromagnetic shielding materials as we create, depend upon, and are exposed to more electronic devices than ever Addresses the most

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comprehensive issues  
relating to

electromagnetic fields

Contains information on  
the manufacturing,  
characterization

methods, and properties  
of materials used to  
protect against them

Discusses the important  
characterization

techniques compared  
with one another, thus  
allowing scientists to

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select the best approach  
to a problem Written for  
materials scientists,  
electrical and electronics  
engineers, physicists,  
and industrial  
researchers, Advanced  
Materials for  
Electromagnetic  
Shielding explores all  
aspects in the area of  
electromagnetic  
shielding materials and  
examines the current

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state-of-the-art and new challenges in this rapidly growing area.

Supercritical Water  
Processing Technologies  
for Environment,  
Energy and  
Nanomaterial  
Applications  
CRC Concise  
Encyclopedia of  
Nanotechnology  
Calcium and Chemical  
Looping Technology for

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Power Generation and  
Carbon Dioxide (CO<sub>2</sub>)

Capture

Multiphase Reactor

Engineering for Clean  
and Low-Carbon

Energy Applications

Driving Innovation

Silica-based Organic-  
inorganic Hybrid

Nanomaterials:

Synthesis,

Functionalization And

Applications In The

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Field Of Catalysis

**Engineering**

**Chemistry**

**Laboratory**

**Manual Educreatio**

**n Publishing**

**The growing**

**concern for human**

**wellbeing has**

**generated an**

**increase in the**

**demand for**

**polyphenols,**

**secondary plant  
metabolites that  
exhibit different  
bioactive  
properties. This  
increasing  
demand is mainly  
due to the current  
applications in the  
food industry  
where polyphenols  
are considered  
essential for**



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**human health and  
nutrition.**

**Advances in  
Technologies for  
Producing Food-  
relevant  
Polyphenols  
provides  
researchers,  
scientists,  
engineers, and  
professionals  
involved in the**

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**food industry with  
the latest  
methodologies  
and equipment  
useful to extract,  
isolate, purify, and  
analyze  
polyphenols from  
different available  
sources, such as  
herbs, flora,  
vegetables, fruits,  
and agro-industrial**

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wastes.

Technologies  
currently used to  
add polyphenols  
to diverse food  
matrices are also  
included. This  
book serves a  
reference to  
design and scale-  
up processes to  
obtain  
polyphenols from

**different plant  
sources and to  
produce  
polyphenol-rich  
foods with  
bioactive  
properties (e.g.  
antioxidant,  
antibacterial,  
antiviral,  
anticancer  
properties) of  
interest for human**

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**health and  
wellbeing.**

**This book  
presents select  
papers from the  
International  
Conference on  
Energy, Material  
Sciences and  
Mechanical  
Engineering  
(EMSME) - 2020.  
The book covers**

**the three core areas of energy, material sciences and mechanical engineering. The topics covered include non-conventional energy resources, energy harvesting, polymers, composites, 2D materials, systems**

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**engineering,  
materials**

**engineering, micro-  
machining,**

**renewable energy,  
industrial**

**engineering and  
additive**

**manufacturing.**

**This book will be  
useful to**

**researchers and  
professionals**

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**working in the  
areas of  
mechanical and  
industrial  
engineering,  
materials  
applications, and  
energy  
technology.  
The combustion  
properties of  
organic materials  
are used to assess**



**their safety  
specifications.**

**This knowledge is  
necessary to avoid  
potentially  
disastrous fires.**

**The experimental  
determination of  
the combustion  
properties of a  
new organic  
compound is  
laborious and**

**sometimes even impossible. This book describes methods for the determination and prediction of the combustion properties of organic compounds, along with some examples and exercises.**

**Strong bonds form stronger materials. For this reason, the investigation on thermal degradation of materials is a significantly important area in research and development activities. The analysis of thermal**

**stability can be used to assess the behavior of materials in the aggressive environmental conditions, which in turn provides valuable information about the service life span of the materiel. Unlike**

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**other books**

**published so far  
that have focused  
on either the  
fundamentals of  
thermal analysis  
or the degradation  
pattern of the  
materials, this  
book is  
specifically on the  
mechanism of  
degradation of**

**materials. The mechanism of rapturing of chemical bonds as a result of exposure to high-temperature environment is difficult to study and resulting mechanistic pathway hard to establish. Limited**

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**information is  
available on this  
subject in the  
published  
literatures and  
difficult to  
excavate.  
Chapters in this  
book are  
contributed by the  
experts working  
on thermal  
degradation and**

**analysis of the  
wide variety of  
advanced and  
traditional  
materials. Each  
chapter discusses  
the material, its  
possible  
application,  
behavior of  
chemical entities  
when exposed to  
high-temperature**



**environment and  
mode and the  
mechanistic route  
of its  
decomposition.  
Such information  
is crucial while  
selecting the  
chemical  
ingredients during  
the synthesis or  
development of  
new materials**

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**technology.**

**Combustible**

**Organic Materials**

**Parts A, B and C**

**Innovative**

**Applications and**

**Modeling**

**Tribology and**

**Sustainability**

**Determination and**

**Prediction of**

**Combustion**

**Properties**

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**Processes,  
Edition  
Technologies, and  
Challenges**

Calcium and Chemical  
Looping Technology for  
Power Generation and  
Carbon Dioxide (CO<sub>2</sub>)  
Capture reviews the  
fundamental principles,  
systems, oxygen  
carriers, and carbon  
dioxide carriers relevant  
to chemical looping and

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combustion. Chapters review the market development, economics, and deployment of these systems, also providing detailed information on the variety of materials and processes that will help to shape the future of CO<sub>2</sub> capture ready power plants. Reviews the fundamental principles, systems,

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oxygen carriers, and  
carbon dioxide carriers  
relevant to calcium and  
chemical looping

Provides a lucid  
explanation of advanced  
concepts and  
developments in calcium  
and chemical looping,  
high pressure systems,  
and alternative CO<sub>2</sub>  
carriers Presents  
information on the  
market development,

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economics, and  
deployment of these  
systems

Tribology and  
Sustainability brings a  
vision of promoting a  
greener, cleaner and eco-  
friendly environment by  
highlighting sustainable  
solutions in tribology via  
the development of self-  
lubricating materials,  
green additives in  
lubricants, natural fibre-

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reinforced materials and  
biomimetic approaches.

Backed by supporting  
schematic diagrams,  
data tables and  
illustrations for easy  
understanding, the book  
focuses on recent  
advancements in  
tribology and  
sustainability. Global  
sustainability and  
regional requirements  
are addressed through

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chapters on natural  
composites, green  
lubricants, biomedical  
systems and wind energy  
systems, with a  
dedicated chapter on a  
global sustainability  
scenario. FEATURES  
Highlights sustainability  
via new tribological  
approaches and how  
such methods are  
essential Covers the  
theoretical aspects of



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various tribological  
topics concerning  
mechanical and material  
designs for energy-  
efficient systems  
Includes practical global  
sustainability based on  
the regional  
requirements of  
tribological research and  
sustainable impact  
Reviews the tribology of  
green lubricants, green  
additives and lightweight

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materials Discusses  
topics related to  
biomimetics and  
biotribology Tribology  
and Sustainability will  
assist researchers,  
professionals and  
graduate students in  
tribology, surface  
engineering, mechanical  
design and materials  
engineering, including  
mechanical, aerospace,  
chemical and

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environmental  
Edition  
engineering.

Life is impossible  
without chemistry.

Engineering chemistry  
has a special role to play  
in the curriculum of  
under graduate students  
of all branches of  
Engineering. The  
present book entitled  
“ENGINEERING

CHEMISTRY  
LABORATORY

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MANUAL” is very useful to Engineering students of various Institutions. The practical book providing simple and easy approach on the subject matter to Engineering students.

Metal ions play an important role in analytical chemistry, organometallic chemistry, bioinorganic

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chemistry, and materials  
chemistry. This book,  
Descriptive Inorganic  
Chemistry Researches  
of Metal Compounds,  
collects research articles,  
review articles, and  
tutorial description  
about metal compounds.  
To perspective  
contemporary researches  
of inorganic chemistry  
widely, the kinds of  
metal elements (typical

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and transition metals including rare earth; p, d, f-blocks) and compounds (molecular coordination compounds, ionic solid materials, or natural metalloenzyme) or simple substance (bulk, clusters, or alloys) to be focused are not limited. In this way, review chapters of current researches are collected

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in this book.

Air and water pollution occurs when toxic pollutants of varying kinds (organic, inorganic, radioactive and so on) are directly or indirectly discharged into the environment without adequate treatment to remove these potential pollutants. There are a total of 13 book

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chapters in three  
sections contributed by  
significant number of  
expert authors around  
the world, aiming to  
provide scientific  
knowledge and up-to-  
date development of  
various solid wastes  
based cost-effective  
adsorbent materials and  
its sustainable  
application in the  
removal of



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contaminates/pollutants  
Edition  
from air, gas and water.

This book is useful for  
the professions,  
practicing engineers,  
scientists, researchers,  
academics and  
undergraduate and post-  
graduate students'  
interest on this specific  
area. Key Features: •  
Exclusive compilation  
of information on use of  
industrial and

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agricultural waste based

adsorbents for air and

water pollution

abatement. • Explores

utilization of industrial

solid wastes in

adsorptive purification

and agricultural and

agricultural by-products

in separation and

purification. • Discusses

cost-effective solid

wastes based emerging

adsorbents. • Alternative

adsorbents in the removal of a wide range of contaminants and pollutants from water is proposed. • Includes performance of unit operations in waste effluents treatment.

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and Big Data

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Applications

Fundamentals,

Properties, and

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Applications

Film Properties of  
Plastics and Elastomers  
Selected Papers of the  
11th Workshop

Film Properties  
of Plastics and  
Elastomers,  
Fourth Edition is  
the only data  
handbook  
available on the

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engineering  
properties of  
commercial  
polymeric films.  
It details many  
physical,  
mechanical,  
optical, electrical  
and permeation  
properties within  
the context of  
specific test

parameters,  
providing a  
ready reference  
for comparing  
materials in both  
the same and  
different  
families. Data is  
presented on the  
characteristics of  
major plastic and  
elastomer

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packaging materials, with the data in this edition updated to cover the five years since the previous edition was published. The resin chapters each contain textual summary

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information,  
including  
category,  
general  
description,  
processing  
methods,  
applications,  
reliability,  
weatherability,  
and regulatory  
approval



considerations  
for use in food  
and medical  
packaging.  
Provides an  
essential  
reference tool  
for the workflow  
of engineers and  
scientists  
involved in the  
plastics industry

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Details a broad  
range of film  
properties,  
enabling  
engineers and  
professionals to  
compare and  
select materials  
Provides a life-of-  
product  
approach, with  
coverage ranging

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from properties  
and key

concepts,

through to

production and

applications

Supercritical

fluids are

increasingly

being used in

energy

conversion and

fluid dynamics  
studies for  
energy-related  
systems and  
applications.  
These new  
applications are  
contributing to  
both the increase  
of energy  
efficiency as  
well as

greenhouse gas  
reduction. Such  
research is  
critical for  
scientific  
advancement and  
industrial  
innovations that  
can support  
environmentally  
friendly  
strategies for

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sustainable  
energy systems.  
The Handbook of  
Research on  
Advancements in  
Supercritical  
Fluids  
Applications for  
Sustainable  
Energy Systems  
is a  
comprehensive

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two-volume  
reference that  
covers the most  
recent and  
challenging  
issues and  
outlooks for the  
applications and  
innovations of  
supercritical  
fluids. The book  
first converts

basic thermo-  
dynamic  
behaviors and  
“ abnormal ”  
properties from  
a thermophysical  
aspect, then  
basic heat  
transfer and flow  
properties,  
recent new  
findings of its



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physical aspect  
and indications,  
chemical  
engineering  
properties, micro-  
nano-scale  
phenomena, and  
transient  
behaviors in fast  
and critical  
environments. It  
is ideal for

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engineers,  
energy

companies, envir  
onmentalists,  
researchers,  
academicians,  
and students  
studying  
supercritical  
fluids and their  
applications for  
creating

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sustainable  
energy systems.

This book will be  
useful for degree  
& diploma

Curriculum of  
Engineering and  
for various  
associate

membership  
examinations  
conducted by

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professional  
bodies like  
Institution of  
Engineers(AMIE  
) and Indian  
Institute of  
chemical  
Engineers  
(AMIChE) etc.  
Salient Features  
of This Book \*  
Subject matter

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has been  
presented in  
simple, lucid &  
easy to  
understand  
language \*

Covers all the  
topics included in  
the syllabus of  
various  
engineering colle  
ges/Technical

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Institutes &  
professional  
bodies  
examination  
papers.

Neural Networks  
is an integral  
part in machine  
learning and a  
known tool for  
controlling  
nonlinear

processes. The area is under rapid development and provides a tool for modelling and controlling of advanced processes. This book provides a comprehensive overview for

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modelling,  
simulation,  
measurement  
and control  
strategies for  
reactive  
distillations using  
neural networks.  
This book is  
primarily  
intended for the  
first year B.Tech



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students of all  
branches for  
their course on  
engineering  
chemistry. The  
main objective of  
this book is to  
provide a broad  
understanding of  
the chemical  
concepts,  
theories and

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principles of  
Engineering  
Chemistry in a  
clear and concise  
manner, so that  
even an average  
student can  
grasp the  
intricacies of the  
subject. It  
includes the  
general concepts

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of structure and bonding, phase rule, solid state, reaction kinetics and catalysis, electrochemistry, chemical thermodynamics and free energy. Besides, the book introduces topics of applied

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chemistry like  
water

technology,  
polymer  
chemistry and  
nanotechnology.  
Each theoretical  
concept is well  
supported by  
illustrative  
examples. The  
book also

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provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts. KEY FEATURES (i) Each chapter of the book provides a clear

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and easy

understanding of  
the definitions,  
theories and  
principles. (ii) A  
large number of  
well-labelled  
diagrams help to  
understand the  
concepts easily  
and clearly. (iii)

Chapter-wise

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glossary and  
important

mathematical  
relations are

given for quick  
revision. (iv)

Provides multiple  
choice questions  
with answers,  
short questions  
and long  
questions for

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practice.a

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Advanced

Process

Engineering

Control

Chitosan Based

Biomaterials

Volume 1

Reactive

Distillation

12th

International



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Symposium on  
Process Systems  
Engineering and  
25th European  
Symposium on  
Computer Aided  
Process  
Engineering  
IO2015-XVII  
Congress of  
Portuguese  
Association of

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Operational  
Research  
(APDIO)

Handbook of  
Lung Targeted  
Drug Delivery  
Systems

*Provides a  
comprehensive  
review on the  
brand-new  
development of*

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*several  
multiphase  
reactor  
techniques  
applied in  
energy-related  
processes  
Explains the  
fundamentals  
of multiphase  
reactors as  
well as the*

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*sophisticated  
applications  
Helps the  
reader to  
understand the  
key problems  
and solutions  
of clean coal  
conversion  
techniques  
Details the  
emerging*

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*processes for  
novel refining  
technology,  
clean coal  
conversion  
techniques,  
low-cost  
hydrogen  
productions  
and CO<sub>2</sub>  
capture and  
storage*

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*Introduces  
current energy-  
related  
processes and  
links the  
basic  
principles of  
emerging  
processes to  
the features  
of multiphase  
reactors*

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*providing an  
overview of  
energy  
conversion in  
combination  
with  
multiphase  
reactor  
engineering  
Includes case  
studies of  
novel reactors*

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*to illustrate  
the special  
features of  
these reactors  
Handbook of  
Lung Targeted  
Drug Delivery  
Systems:  
Recent Trends  
and Clinical  
Evidences  
covers every*



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*aspect of the  
drug delivery  
to lungs, the  
physiology and  
pharmacology  
of the lung,  
modelling for  
lung delivery,  
drug devices  
focused on  
lung  
treatment,*

*regulatory requirements, and recent trends in clinical applications. With the advent of nano sciences and significant development in the nano*

*particulate  
drug delivery  
systems there  
has been a  
renewed  
interest in  
the lung as an  
absorption  
surface for  
various drugs.  
The emergence  
of the*

*COVID-19 virus  
has brought  
lung and lung  
delivery  
systems into  
focus, this  
book covers  
new  
developments  
and research  
used to  
address the*

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*prevention and  
treatment of  
respiratory  
diseases.*

*Written by  
well-known  
scientists  
with years of  
experience in  
the field this  
timely  
handbook is an*

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*excellent  
reference book  
for the  
scientists and  
industry  
professionals.  
Key Features:  
Focuses  
particularly  
on the  
chemistry,  
clinical*

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*pharmacology,  
and biological  
developments  
in this field  
of research.*

*Presents  
comprehensive  
information on  
emerging  
nanotechnology  
applications  
in diagnosing*

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*and treating  
pulmonary  
diseases  
Explores drug  
devices  
focused on  
lung  
treatment,  
regulatory  
requirements,  
and recent  
trends in*



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*clinical  
applications  
Examines  
specific  
formulations  
targeted to  
pulmonary  
systems  
Product and  
Process  
Design:  
Driving*

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*Innovation is  
a*

*comprehensive  
textbook for  
students and  
industrial  
professionals.  
It treats the  
combined  
design of  
innovative  
products and*

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*their  
innovative  
manufacturing  
processes,  
providing  
specific  
methods for  
BSc, MSc,  
PDEng and PhD  
courses.  
Students,  
industrial*

*innovators and  
managers are  
guided through  
all design  
steps in all  
innovation  
stages  
(discovery,  
concept,  
feasibility,  
development,  
detailed*

*engineering,  
and implementa  
tion) to  
successfully  
obtain novel  
products and  
their novel  
processes. The  
authors'  
decades of  
innovation  
experience in*

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*industry, as well as in teaching BSc, MSc, and post-academic product and process design courses, thereby including the latest design publications,*

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*culminate in  
this book.*

*Chitosan Based  
Biomaterials:  
Fundamentals,  
Volume 1,  
provides the  
latest  
information on  
chitosan, a  
natural  
polymer*

*derived from  
the marine  
material  
chitin.  
Chitosan  
displays  
unique  
properties,  
most notably b  
iocompatibilit  
y and biodegra  
dability. It*



*can also be easily tuned to modify its structure or properties, making chitosan an excellent candidate as a biomaterial. Consequently, chitosan is*

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*being developed for many biomedical functions, ranging from tissue engineering and implant coatings to drug and gene delivery. This*

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*book looks at  
the  
fundamentals  
of chitosan-  
based  
biomaterials.  
Contains  
specific focus  
on the  
techniques and  
technologies  
needed to*

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*develop  
chitosan for  
biomedical  
applications  
Presents a  
comprehensive  
treatment of  
the  
fundamentals  
Provides  
contributions  
from leading*

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*researchers  
with extensive  
experience in  
chitosan  
Ionic liquids  
continue to  
attract a  
great deal of  
research  
attention in  
an even  
increasing*

*number of  
areas,  
including more  
traditional  
areas such as  
synthesis  
(organic and  
materials) and  
physical  
properties  
studies and  
predictions,*

as well as  
less obvious  
areas such as  
lubrication  
and enzymatic  
transformations. In this  
volume, recent  
advances in a  
number of  
these  
different

*areas are  
reported and  
reviewed, thus  
granting some  
appreciation  
for the future  
that ionic  
liquids  
research  
holds, and  
affording  
inspiration*



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*for those who  
have not  
previously  
considered the  
application of  
ionic liquids  
in their area  
of interest.  
Product and  
Process Design  
Recent Trends  
and Clinical*

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*Evidences*

*The Properties  
of Energetic  
Materials*

*Select*

*Proceedings of  
EMSME 2020*

*Analysis of  
Oceanic Waters  
and Sediments*

*Sustainable  
Materials and*

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*Systems for  
Water*

*Desalination*

As a mature  
topic in  
chemical  
engineering,  
the book  
provides  
methods,  
problems and  
tools used in

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process control  
engineering. It  
discusses:  
process  
knowledge,  
sensor system  
technology,  
actuators,  
communication  
technology, and  
logistics,  
design and  
construction of

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control systems  
and their  
operation. The  
knowledge goes  
beyond the  
traditional  
process  
engineering  
field by  
applying the  
same  
principles, to  
biomedical

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processes,  
energy

production and  
management of  
environmental  
issues. The  
book explains  
all the  
determinations  
in the  
"chemical  
systems" or  
"process

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systems",  
starting from  
the beginning  
of the  
processes,  
going through  
the intricate  
interdependency  
of the process  
stages,  
analyzing the  
hardware  
components of a

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control system  
and ending with  
the design of  
an appropriate  
control system  
for a process  
parameter or a  
whole process.  
The book is  
first addressed  
to the students  
and graduates  
of the



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departments of  
Chemical or  
Process  
Engineering.  
Second, to the  
chemical or  
process  
engineers in  
all industries  
or research and  
development  
centers,  
because they

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will notice the  
resemblance in  
approach from  
the system and  
control point  
of view,  
between  
different  
fields which  
might seem far  
from each  
other, but  
share the same

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control  
philosophy.

This book  
discusses  
multiways in  
the porous  
materials. It  
involves  
materials with  
a large number  
of holes, and  
it highlights  
the synthesis,

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structure, and  
surface  
properties of  
porous  
materials  
closely related  
to more  
applications,  
such as  
support,  
catalyst,  
energy storage,  
chemical

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reactions, and  
optical  
applications.

It studies the  
effect of the  
filling  
materials, the  
thermal  
treatments, and  
the porous  
density in the  
improvement of  
physical

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properties,  
electrical and  
energy  
efficiency, and  
the generation  
of new  
materials. Some  
synthetic  
process will be  
discussed with  
the effect of  
some parameters  
on the final

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characteristics  
of the prepared  
porous  
structures.

This book  
systematically  
presents the  
technical  
aspects of  
supercritical  
water oxidation  
and  
supercritical

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water  
gasification  
for energy and  
environmental  
applications,  
which include  
reactor design,  
construction  
materials,  
corrosion, salt  
precipitation,  
etc. The book  
provides a



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comprehensive  
introduction to  
the properties  
of  
supercritical  
water, and the  
industrial  
applications,  
reaction  
mechanisms and  
reaction  
kinetics of  
supercritical

water oxidation  
(SCWO) and  
supercritical  
water  
gasification  
(SCWG). The  
reactions  
occurring in  
supercritical  
water are  
complex, and  
studying their  
reaction

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mechanisms is  
of great  
importance for  
the development  
of  
supercritical  
water  
processing  
technologies.  
Accordingly,  
the book  
explains the  
oxidative

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mechanisms and kinetics of organic matter in supercritical water in detail.

However, the harsh reaction conditions in supercritical water can easily create

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severe reactor  
corrosion and  
salt deposition  
problems.

Therefore, the  
book also  
comprehensively  
reports on the  
mechanism  
analysis, state  
of research,  
and development  
trends

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regarding these  
two problems.

Lastly, the  
book summarizes  
the development  
of  
supercritical  
water  
processing  
technologies,  
including  
studies on SCWO  
and SCWG, as

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well as near-zero-emission systems of pollutants based on SCWO technology. In short, the book provides a wealth of valuable information for all readers who are interested

in using SCWO  
for organic  
waste  
treatment, and  
in using SCWG  
for hydrogen  
production with  
wet biomass.

The presence of  
concentrations  
of organic  
substances and  
cations in



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seawater is a matter of increasing concern to the water industry, environmentalists and the general public alike. It poses a threat of possible health hazards for humans, fish

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and crustacea.

Until fairly recently, the analysis of seawater was limited to a number of major constituent

The CRC Concise Encyclopedia of Nanotechnology sets the standard

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against which  
all other  
references of  
this nature are  
measured. As  
such, it is a  
major resource  
for both  
skilled  
professionals  
and novices to  
nanotechnology.  
The book

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examines the  
design,  
application,  
and utilization  
of devices,  
techniques, and  
technologies  
critical to  
research at the  
Advances in  
Mechanical and  
Materials  
Technology

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Chemical Functi  
onalization of  
Carbon  
Nanomaterials  
Handbook of  
Research on  
Advancements in  
Supercritical  
Fluids  
Applications  
for Sustainable  
Energy Systems  
Air, Gas, and

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Water Pollution  
Control Using  
Industrial and  
Agricultural  
Solid Wastes  
Adsorbents  
Reactions and  
Mechanisms in  
Thermal  
Analysis of  
Advanced  
Materials  
ENGINEERING

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# CHEMISTRY WITH LABORATORY EXPERIMENTS

This book contains selected papers of the 11th OpenFOAM® Workshop that was held in Guimarães, Portugal, June 26 - 30, 2016. The 11th OpenFOAM® Workshop had more than 140

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technical/scientific presentations and 30 courses, and was attended by circa 300 individuals, representing 180 institutions and 30 countries, from all continents. The OpenFOAM® Workshop provided a forum for researchers, industrial users, software developers,



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consultants and academics working with OpenFOAM® technology. The central part of the Workshop was the two-day conference, where presentations and posters on industrial applications and academic research were shown. OpenFOAM® (Open Source Field

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Operation and  
Manipulation) is a  
free, open source  
computational toolbox  
that has a larger user  
base across most  
areas of engineering  
and science, from  
both commercial and  
academic  
organizations. As a  
technology,  
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range of features to solve anything from complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics, among several others. Additionally, the OpenFOAM technology offers complete freedom to customize and extend

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its functionalities.

Surfactants are often completely invisible to us and yet they are present in almost every chemical that we use in our daily life. They are found in toothpastes, cosmetics, sunscreens, mayonnaise, detergents, and an array of cleaning

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products. Traditional surfactants are known to have adverse environmental impacts spurring research into eco-friendly and cost-effective surfactants from renewable resources.

Surfactants from Renewable Raw Materials examines the class of

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surfactants synthesized using plant-based raw materials detailing their properties, applications, bioavailability, and biodegradability. The concluding chapter reviews patent activity over the last decade. Additional features include: Addresses the tremendous

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variation found in the raw materials used to synthesize commercially available surfactants. Explores the selection of raw materials based upon the desired hydrophobic group or hydrophilic group to be incorporated into the product. Examines the characteristics

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and medicinal  
Edition  
applications of  
pulmonary surfactants  
in preterm babies as  
well as their probable  
contribution in  
COVID-19 Discusses  
the biodegradability of  
surfactants to assist  
with the determination  
of truly green  
surfactants. This  
comprehensive  
reference will prove



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indispensable for professional and academic researchers creating or working with bio-based surfactants.

As the broad challenges around energy and the environment have become the focus of much research, scientists and experts have dedicated their

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efforts to developing more active and selective catalytic systems for key chemical transformations. For many decades environmentally viable protocols for the synthesis of fine chemicals have been the crux of academic and industrial research.

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Heterogeneous  
Edition  
Catalysis in Organic  
Transformations

serves as an overview  
of this work, providing  
a complete  
description of role of  
heterogeneous  
catalysis in organic  
transformations and  
offering a review of  
the current and near  
future technologies  
and applications.

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Discusses the  
fundamentals of  
catalysis and  
compares the  
advantages and  
disadvantages of  
different types of  
catalyst systems  
Examines oxide  
nanoparticles and  
noble metal  
nanoparticles  
Consider  
organometallic

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compounds, solid-supported catalysts, and mesoporous materials Describes recent advances in metal-based heterogeneous catalysts and new reactions with possible mechanistic pathways Providing a comprehensive review of heterogeneous

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catalysis from the  
basics through recent  
advances, this book  
will be of keen interest  
to undergraduates,  
graduates, and  
researchers in  
chemistry, chemical  
engineering, and  
associated fields.  
Currently the field of  
nanocatalysis is  
undergoing many  
exciting developments

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and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field. This book aims to present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-

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inorganic hybrid  
catalytic systems  
encompassing the  
key advantages of  
silica nanoparticles  
and silica-coated  
magnetic  
nanoparticles in an  
integrated manner.  
Featuring  
comprehensive  
descriptions of almost  
all approaches utilized  
for the synthesis of



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nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion on the vital characterization techniques employed

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for authenticating the structure of these. The title also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the environment.

Carbon-based

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nanomaterials are rapidly emerging as one of the most fascinating materials in the twenty-first century. Chemical Functionalization of Carbon

Nanomaterials: Chemistry and Applications provides a thorough examination of carbon nanomaterials,

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including their  
variants and how they  
can be chemically  
functionalized. It also  
gives a  
comprehensive  
overview of current  
advanced applications  
of functionalized  
carbon nanomaterials,  
including the  
automotive,  
packaging, coating,  
and biomedical

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industries. The book covers modern techniques to characterize chemically functionalized carbon nanomaterials as well as characterization of surface functional groups. It includes contributions from international leaders in the field who highlight the

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multidisciplinary and  
interdisciplinary  
flexibility of  
functionalized carbon  
nanomaterials. The  
book illustrates how  
natural drawbacks to  
carbon nanomaterials,  
such as low solubility,  
can be countered by  
surface modifications  
and shows how to  
make modifications. It  
discusses

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developments in the use of carbon nanomaterials in several critical areas in scientific research and practice, including analytical chemistry, drug delivery, and water treatment. It explores market opportunities due to the versatility and increasing applicability of carbon

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nanomaterials. It also gives suggestions on the direction of the field from its current point, paving the way for future developments and finding new applications.

Chemical  
Functionalization of  
Carbon  
Nanomaterials:  
Chemistry and



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Applications is a significant collection of findings in a rapidly developing field. It gives an in-depth look at the current achievements of research and practice while pointing you ahead to new possibilities in functionalizing and using carbon nanomaterials.

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Heterogeneous  
Catalysis in Organic  
Transformations  
The Water-Food-  
Energy Nexus  
Process,  
Technologies and  
Applications  
Descriptive Inorganic  
Chemistry  
Researches of Metal  
Compounds  
Engineering  
Chemistry

Advances in  
Technologies for  
Producing Food-  
relevant Polyphenols  
*The development of  
Operations  
Research (OR)  
requires constant  
improvements, such  
as the integration of  
research results  
with business*

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And Engineering  
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*applications and  
innovative*

*educational*

*practice. The full*

*deployment and*

*commercial*

*exploitation of*

*goods and services*

*generally need the*

*construction of*

*strong synergies*

*between educational*

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*institutions and  
businesses. The*

*IO2015 -XVII*

*Congress of APDIO*

*aims at*

*strengthening the  
knowledge triangle*

*in education,*

*research and*

*innovation, in order*

*to maximize the*

*contribution of OR*

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*for sustainable  
growth, the  
promoting of a  
knowledge-based  
economy, and the  
smart use of finite  
resources. The  
IO2015-XVII  
Congress of APDIO  
is a privileged  
meeting point for  
the promotion and*

*dissemination of OR  
and related*

*disciplines, through  
the exchange of  
ideas among*

*teachers,*

*researchers,*

*students , and*

*professionals with  
different*

*background, but all  
sharing a common*

*desire that is the  
development of OR.  
For a chemist who  
is concerned with  
the synthesis of new  
energetic  
compounds, it is  
essential to be able  
to assess physical  
and thermodynamic  
properties, as well  
as the sensitivity, of*



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And Engineering  
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*possible new  
energetic*

*compounds before  
synthesis is  
attempted. Various  
approaches have  
been developed to  
predict important  
aspects of the  
physical and  
thermodynamic  
properties of*

*energetic materials including (but not limited to): crystal density, heat of formation, melting point, enthalpy of fusion and enthalpy of sublimation of an organic energetic compound. Since an organic energetic material consists of*

*metastable  
molecules capable  
of undergoing very  
rapid and highly  
exothermic  
reactions, many  
methods have been  
developed to  
estimate the  
sensitivity of an  
energetic compound  
with respect to*

*detonation causing external stimuli such as heat, friction, impact, shock and electrostatic discharge. This book introduces these methods and demonstrates those methods which can be easily applied.*

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*25th European  
Edition.  
Symposium on  
Computer-Aided  
Process*

*Engineering  
contains the papers  
presented at the  
12th Process*

*Systems  
Engineering (PSE)  
and 25th European  
Society of Computer*

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***Aided Process  
Engineering  
(ESCAPE) Joint  
Event held in  
Copenhagen,  
Denmark, 31 May -  
4 June 2015. The  
purpose of these  
series is to bring  
together the  
international  
community of***

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*researchers and  
engineers who are  
interested in  
computing-based  
methods in process  
engineering. This  
conference  
highlights the  
contributions of the  
PSE/CAPE  
community towards  
the sustainability of*

*modern society.*

*Contributors from  
academia and  
industry establish  
the core products of  
PSE/CAPE, define  
the new and  
changing scope of  
our results, and  
future challenges.  
Plenary and keynote  
lectures discuss real-*



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*world challenges  
(globalization,  
energy,  
environment, and  
health) and  
contribute to  
discussions on the  
widening scope of  
PSE/CAPE versus  
the consolidation of  
the core topics of  
PSE/CAPE.*

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*Highlights how the  
Process Systems En  
gineering/Computer-  
Aided Process  
Engineering  
community  
contributes to the  
sustainability of  
modern society  
Presents findings  
and discussions  
from both the 12th*

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***Process Systems  
Engineering (PSE)  
and 25th European  
Society of Computer-  
Aided Process  
Engineering  
(ESCAPE) Events  
Establishes the core  
products of Process  
Systems Engineerin  
g/Computer Aided  
Process***

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***Engineering***

***Defines the future  
challenges of the  
Process Systems En  
gineering/Computer  
Aided Process  
Engineering  
community  
Provides a  
comprehensive  
overview on  
developing***

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*sustainable  
practices for waste  
minimization via  
green metal  
extraction from  
waste streams This  
book introduces  
readers to  
sustainable  
management and  
defines the  
challenges as well*

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*as the opportunities  
in waste stream  
management. It  
starts by covering  
conventional  
technologies for  
metal extraction  
then focuses on  
emerging tools and  
techniques such as  
green adsorption,  
bioleaching, and*

*chelation. It also discusses the scale-up and process intensification of metal extraction from waste streams from process design to pilot plan.*

*Sustainable Metal Extraction from Waste Streams begins by covering*

*sustainability-  
related constructs  
and illustrates the  
pre-requisites for  
sustainable  
management of  
waste streams. It  
then introduces the  
basics of solid waste  
handling, ranging  
from an analysis of  
the relevance,*



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*categories of wastes,  
consequences of  
untreated waste  
disposal into the  
environment,  
government  
initiatives,  
management  
strategies, and unit  
operations for pre-  
treatment of wastes.  
The book also looks*

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*at widely accepted,  
conventional metal  
extraction  
technologies like  
hydro and pyro  
metallurgical  
methods; discusses  
the possibility of  
sustainable green  
processes for metal  
extraction; and  
introduces the*

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*recently deployed  
coiled flow inverter  
process. -Provides a  
comprehensive  
collection of the  
conventional,  
emerging, and  
future technologies  
for metal extraction  
from industrial  
waste and electrical  
& electronic*

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*equipment in a  
sustainable way*

*-Demonstrates trans-  
disciplinary  
research as an  
executable direction  
to achieve the  
sustainable  
governance of  
natural resources  
and solid waste  
management*

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*-Presents a  
dedicated section on  
scale-up and  
process  
intensification of  
metallurgical  
processes  
-Summarizes  
various aspects of  
novel processes  
ranging from basic  
concepts,*

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*benchmark  
performance of  
technologies on lab  
scale, and recent  
research trends in  
metal extraction  
Covering a variety  
of interdisciplinary  
topics on resource  
optimization and  
waste minimization,  
Sustainable Metal*

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*Extraction from  
Waste Streams is an  
excellent resource  
for engineers,  
science students,  
entrepreneurs, and  
organizations who  
are working in the  
field of waste  
management and  
wish to gain  
information on*

Acces PDF Jain  
And Engineering  
Chemistry 2013  
*upcoming*  
Edition  
*sustainable*

*processes.*

*This edited book  
explores the most  
promising and  
reliable  
technological  
developments  
expected to impact  
on the next  
generation of*



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*desalination*

*systems. The book includes research studies which takes the reader on a fascinating walk through the multidisciplinary world of membrane science applied to water treatment.*

*Concerning the*

*ultimate  
technological  
advancement, the  
book seeks to  
investigate how to  
bridge the gap  
between the  
laboratory scale and  
the applicability to  
industry.*

*Advanced Materials  
for Electromagnetic*

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***Shielding  
Current State of the  
Art***

***Nanostructured  
Polymer  
Membranes,  
Volume 2  
Sustainable Metal  
Extraction from  
Waste Streams  
Sensitivity, Physical***

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And Engineering  
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*and*

*Thermodynamic  
Properties*

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and

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content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition

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metals,  
coordination co  
mpounds, crystal  
field theory,  
gaseous and  
liquid states,  
adsorption,  
flame photometr  
y, fullerenes,  
composites,  
mechanism of  
some typical  
reactions, oils

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and fats, soaps  
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and detergents,

have been  
included or  
expanded upon.  
A largenumber  
of solved  
numerical  
examples drawn  
from various  
university exam  
inationshave  
been given at

the end of  
theoretical  
part of each  
chapter.

Questions  
have been drawn  
from latest  
examinations of  
various  
universities.  
Chemistry and  
Applications  
Ionic Liquids



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