

Access Free Applied Chemistry
By Jain And Jain

*Applied Chemistry By Jain
And Jain*

Conceptual Chemistry
Volume I For Class XI
Applied Chemistry and

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Chemical Engineering,
Volume 4: Experimental
Techniques and Methodical
Developments provides a
detailed yet easy-to-follow
treatment of various
techniques useful for

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characterizing the structure and properties of engineering materials. This timely volume provides an overview of new methods and presents experimental research in applied

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chemistry using modern approaches. Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and

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then goes on to demonstrate the advantage and disadvantages of each physical technique. Thus, readers will be able to apply the concepts as described in the book to their own

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experiments. The book is broken into several subsections: Polymer Chemistry and Technology
Computational Approaches
Clinical Chemistry and Bioinformatics Special Topics

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This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science, technology, engineering, and

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mathematics.

This new volume presents an up-to-date review of modern materials and physical chemistry concepts, issues, and recent advances in the field. It presents a modern

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theoretical and experimental approach in applied physical chemistry. The volume discusses the developments of advanced chemical products and respective tools to characterize and

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predict the chemical material properties and behavior.

With chapters from distinguished scientists and engineers from key institutions worldwide, the volume provides

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understanding through numerous examples and practical applications drawn from research and development chemistry. It emphasizes the intersection of chemistry, math, physics,

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and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas. At the same time, each topic is framed

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within the context of a broader more interdisciplinary approach, demonstrating its relationship and interconnectedness to other areas. This new book fills a

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gap within modeling texts, focusing on applications across a broad range of disciplines, and presents information on many important problems in physical chemistry. These

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investigations are accompanied by real-life applications in practice. Information requirements of measurement programmes; Sampling; Basic problems and aims of sampling; Time

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and frequency of sampling;
Overall design of sampling
programmes; Procedures for
obtaining samples of waters;
Preparation, transport,
storage, and stability of
samples; The nature and

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importance of errors in analytical results; Random error; Systematic error; Accuracy; Effects of errors on decision making; Need to estimate analytical errors; Estimation and control of the

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Bias of analytical results;
Detailed consideration and
assessment of individual
sources of Bias; Assessment
of the overall Bias of
analytical results; Estimation
and control of the precision

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of analytical results; Model of Random errors; Achievement of specified accuracy by a group of laboratories; Types of inter-laboratory studies; Reporting analytical results; Reporting results close to the

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lower concentration limit of
an analytical system; The
selection of analytical
methods; General
precautions in water-analysis
laboratories; Analytical
techniques; Automatic and

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on-line analysis; Computers in water analysis; The scope for computing in water analysis and related activities.

Applied Chemistry
Plenary and Invited Lectures

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Presented at the
International Conference on
Chemical and Biological
Thermodynamics
A Textbook of Polytechnic
Chemistry
Chimie pure et appliquée

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Strategies and Technologies
Flexible Supercapacitor
Nanoarchitectonics

**About the Book: This
book Engineering
Mathematics-II is
designed as a self-**

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contained, comprehensive
classroom text for the
second semester B.E.
Classes of Visveswaraiiah
Technological University
as per the Revised new
Syllabus. The topics

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included are
Differential Calculus,
Integral Calculus and
Vector Integration,
Differential Equations
and Laplace Transforms.
The book is written in a

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simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and

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problems make the book educational in nature. It shou.

This book on EngineeringChemistry has been entirely rewritten in order to make it up-

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to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the

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various universities of
India, topics like
transition metals,
coordination
compounds, crystal field
theory, gaseous and
liquid states,

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adsorption, flame
photometry, fullerenes,
composites, mechanism of
some typical reactions,
oils and fats, soaps and
detergents, have been
included or expanded

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upon. A largenumber of
solved numerical
examples drawn from
various university
examinationshave been
given at the end of
theoretical part of each

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chapter. Questions
have been drawn from
latest examinations of
various universities.
The first professional
reference on this highly
relevant topic, for drug

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developers,
pharmacologists and
toxicologists. The
authors provide more
than a systematic
overview of
computational tools and

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knowledge bases for drug metabolism research and their underlying principles. They aim to convey their expert knowledge distilled from many years of experience

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in the field. In addition to the fundamentals, computational approaches and their applications, this volume provides expert accounts of the

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latest experimental
methods for
investigating drug
metabolism in four
dedicated chapters. The
authors discuss the most
important caveats and

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common errors to consider when working with experimental data. Collating the knowledge gained over the past decade, this practice-oriented guide presents

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methods not only used in drug development, but also in the development and toxicological assessment of cosmetics, functional foods, agrochemicals, and

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additives for consumer goods, making it an invaluable reference in a variety of disciplines.

Nanomaterials have shown supreme potential in

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overcoming the major challenges posed by both the conventional as well as nano-enabled water purification systems. Remediation is the process of transforming

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the pollutants present
in water from toxic to
below the limits
stipulated by
national/international
guidelines. Water
remediation is the

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process of obtaining
clean water from
decontaminated water and
is currently a huge
challenge for the global
scientific
community. Volume 2

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**focuses on the use of
inorganic oxides
including metal and non-
metal oxide materials
for water remediation.
This book also covers
the broad discussion**

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regarding various metal and non-metal oxides as well as nanoadsorbent metals, nanoparticles, cryogels and bentonites for the removal of the various organic and

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inorganic pollutants from wastewater. Water pollution is mainly caused by contaminants and can cause severe environmental and health issues. It is a well-

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established fact that nanomaterials have better adsorption capacity, selectivity and stability than nanoparticles. This book also covers the broad

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areas of nanotechnology,
engineering,
environmental science
and water research, and
will be of great benefit
to researchers involved
in these fields. The

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book provides a platform for all researchers as it covers considerable background from recent literature, including the abbreviations used. In addition, this book

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covers the broader
research areas of
chemistry, physics,
materials science,
composites, engineering
and nanotechnology to
present a

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**multidisciplinary
approach.**

**New and Future
Developments in
Microbial Biotechnology
and Bioengineering
For Class 11**

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**The Chemical Analysis of
Water**

**General Principles and
Techniques**

**Encyclopedia of Chemical
Processing and Design**

Reports on the Progress

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of Applied Chemistry
*The Composites Are Well
Known To Mankind Since Pre-
Historic Period And Were
Practiced As Well. But With
The Development Of
Polymers And Polymer*

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*Science, The Concept And
Technology Have Undergone
Sea Change In The
Understanding Of The Basics
Like The Role Of Matrix And
Reinforcement, Bonding
Mechanism, Morphological*

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*Features And Environmental
Effects Etc. Polymer
Composites Due To Their
Lightweight, Chemical And
Corrosion Resistance As Well
As Heterogeneous
Composition Provide*

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*Unlimited Possibilities Of
Deriving Any Characteristic
Material Behaviour. This
Unique Flexibility In Design
Tailoring And Other
Characteristics, Such As
Ease Of Manufacturing, High*

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*Specific Strength, Stiffness,
Shape Molding, Corrosion
Resistance, Durability,
Adaptability And Cost
Effectiveness, Have
Attracted The Attention Of
Engineers And Material*

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*Scientist And Technologists.
They Have Become Materials
Of 21St Century To Meet The
Requirement Of Space,
Missile, Marine And Medical
Aid Technologies.This Book
Deals In Detail Polymer*

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*Composites And Is Intended
As Introduction To The Field
Of Polymer Composites,
Covering Various Aspects Of
Structure, Design,
Behaviour, Use And Quality
Assurance. Though Designed*

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*Primarily For Polymer
Technologists And Scientists,
The Book May Prove To Be
Useful For Under Graduate
And Postgraduate Students
Of Material Science And
Engineering, Polymer*

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*Science And Chemical
Technology Disciplines. The
Book May Also Prove Useful
For Students Of Polymer
Chemistry.*

*Any good text
book, particularly that in the*

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fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards

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the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Applied ChemistryA

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*Textbook for Engineers and Technologists Springer
Science & Business Media
Life is impossible without chemistry. Engineering chemistry has a special role to play in the curriculum of*

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*under graduate students of
all branches of Engineering.
The present book entitled
“ENGINEERING CHEMISTRY
LABORATORY MANUAL” is
very useful to Engineering
students of various*

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Institutions. The practical book providing simple and easy approach on the subject matter to Engineering students.

Polymer Composite

Journal of Applied Chemistry

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By Jain And Jain

*and Biotechnology Abstracts
Nanomaterials for Water
Remediation
Engineering Chemistry
Laboratory Manual
Surfactants from Renewable
Raw Materials*

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Advanced Biosensors for Health Care Applications

Many aspects of modern life have become personalized, yet healthcare practices have been lagging behind in this trend. It is now becoming more common to use big data analysis to

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improve current healthcare and medicinal systems, and offer better health services to all citizens.

Applying Big Data Analytics in Bioinformatics and Medicine is a comprehensive reference source that overviews the current state of medical treatments and systems and

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offers emerging solutions for a more personalized approach to the healthcare field. Featuring coverage on relevant topics that include smart data, proteomics, medical data storage, and drug design, this publication is an ideal resource for medical professionals, healthcare

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practitioners, academicians, and researchers interested in the latest trends and techniques in personalized medicine.

Advanced Biosensors for Health Care Applications highlights the different types of prognostic and diagnostic biomarkers associated with cancer,

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diabetes, Alzheimer's disease, brain and retinal diseases, cardiovascular diseases, bacterial infections, as well as various types of electrochemical biosensor techniques used for early detection of the potential biomarkers of these diseases. Many advanced nanomaterials have attracted intense

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interests with their unique optical and electrical properties, high stability, and good biocompatibility. Based on these properties, advanced nanoparticles have been used as biomolecular carriers, signal producers, and signal amplifiers in biosensor design. Recent studies

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reported that there are several diagnostic methods available, but the major issue is the sensitivity and selectivity of these approaches. This book outlines the need of novel strategies for developing new systems to retrieve health information of patients in real time. It

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explores the potential of nano-multidisciplinary science in the design and development of smart sensing technology using micro-nanoelectrodes, novel sensing materials, integration with MEMS, miniaturized transduction systems, novel sensing strategy, that is, FET,

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CMOS, System-on-a-Chip (SoC), Diagnostic-on-a-Chip (DoC), and Lab-on-a-Chip (LOC), for diagnostics and personalized health-care monitoring. It is a useful handbook for specialists in biotechnology and biochemical engineering. Describes advanced nanomaterials for biosensor

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applications Relates the properties of available nanomaterials to specific biomarkers applications Includes diagnosis and electrochemical studies based on biosensors Explores the potential of nano-multidisciplinary science to design and develop smart sensing technologies Describes novel

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strategies for developing a new class of assay systems to retrieve the desired health information

New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Cellulase System Properties and Applications covers the biochemistry of cellulase

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system, its mechanisms of action, and its industrial applications. Research has shed new light on the mechanisms of microbial cellulase production and has led to the development of technologies for production and applications of cellulose degrading enzymes. The

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biological aspects of processing of cellulosic biomass have become the crux of future research involving cellulases and cellulolytic microorganisms, as they are being commercially produced by several industries globally and are widely being used in food, animal feed,

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fermentation, agriculture, pulp and paper, and textile applications. The book discusses modern biotechnology tools, especially in the area of microbial genetics, novel enzymes, and new enzyme and the applications in various industries. As a professional reference, this new book

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is useful to all researchers working with microbial cellulase system, both academic institutions and industry-based research bodies, as well as to teachers, graduate, and postgraduate students with information on continuous developments in microbial cellulase system. The book

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provides an indispensable reference source for chemists, biochemical engineers/bioengineers, biochemists, biotechnologists and researchers who want to know about the unique properties of this microbe and explore its future applications. Compiles the latest developments

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made and currently undergoing in the area of microbial cellulase system Chapters are contributed from top researchers on this area around the globe Includes information related to almost all areas of microbial cellulase system Extensive cover of current industrial applications and discusses

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potential future applications
Advances in Food and Nutrition
Research, Volume 81 provides
updated knowledge on nutrients in
foods and how to avoid deficiencies,
paying special attention to the
essential nutrients that should be
present in the diet to reduce disease

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risk and optimize health. The series provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits, as well as up-to-date information on food science, including raw materials, production, processing, distribution, and

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consumption. Contains contributions that have been carefully selected based on their vast experience and expertise on the subject Includes updated, in-depth, and critical discussions of available information, giving the reader a unique opportunity to learn Encompasses a

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broad view of the topics at hand
Natural Polymers for Pharmaceutical
Applications
Fundamentals and Applications
Theoretical Models and Experimental
Approaches in Physical Chemistry
Electrochemistry Volume 16
Experimental Techniques and

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Methodical Developments
Green Chemistry for Environmental
Remediation
Biological Macromolecules:
Bioactivity and Biomedical
Applications presents a
comprehensive study of

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biomacromolecules and their potential use in various biomedical applications. Consisting of four sections, the book begins with an overview of the key sources, properties and functions of biomacromolecules,

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covering the foundational knowledge required for study on the topic. It then progresses to a discussion of the various bioactive components of biomacromolecules. Individual chapters explore a range of

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potential bioactivities, considering the use of biomacromolecules as nutraceuticals, antioxidants, antimicrobials, anticancer agents, and antidiabetics, among others. The third section of the

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book focuses on specific applications of biomacromolecules, ranging from drug delivery and wound management to tissue engineering and enzyme immobilization. This focus on the

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various practical uses of biological macromolecules provide an interdisciplinary assessment of their function in practice. The final section explores the key challenges and future perspectives on biological

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macromolecules in biomedicine.
Covers a variety of different
biomacromolecules, including
carbohydrates, lipids, proteins,
and nucleic acids in plants,
fungi, animals, and
microbiological resources

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Discusses a range of applicable areas where biomacromolecules play a significant role, such as drug delivery, wound management, and regenerative medicine Includes a detailed overview of biomacromolecule

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bioactivity and properties
Features chapters on research
challenges, evolving
applications, and future
perspectives
Chemistry International is a four-
chapter news magazine of the

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International Union of Pure and Applied Chemistry (IUPAC). Chapters 1 and 2 contain the membership lists and alphabetical index of IUPAC bodies 1983-1985. Chapter 3 lists all official programs of the Union

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in operation in its special
Committees and in Commissions
of the Physical Chemistry,
Inorganic Chemistry, Organic
Chemistry, Macromolecular,
Analytical Chemistry, Applied
Chemistry, and Clinical

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Chemistry Divisions. The last chapter presents the minutes of the 32nd Council Meeting. The International Science Congress Association organized the 2nd International Science Congress (ISC-2012) with

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'Science and Technology - Challenges of 21st Century' as its focal theme. ISC-2012 was divided in 20 sections. A total number of 800 Research Papers and 1200 registrations from 23 countries all over the world have

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been received. They was mainly from Bangladesh, Bulgariya, Cameroun, France, Greece, Iran, Iraq, Kazakhstan, Korea, Lithuania, Malaysia, Nigeria, Nepal, Phillipines, Pakistan, Poland, Romania, Slovakiya,

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USA, Ukraine, Venezuela, Turkey and India.

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase

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between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in

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depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.

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Research Methodology and
Practical Methods
Conceptual Chemistry Volume I
For Class XI
Indian Journal of Applied
Chemistry
Volume 1: Plant-Derived

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Polymers

Small Molecule Medicinal

Chemistry

Volume 6 - Calcination

Equipment to Catalysis

The book presents an in depth review from
eminent industry practitioners and

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researchers of the emerging green face of multidimensional environmental chemistry. Topics such as green chemistry in industry, green energy: solar photons to fuels, green nanotechnology and sustainability, and green chemistry modeling address a wide array of issues encouraging the use of economical ecofriendly benign

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technologies, which not only improve the yield, but also illustrates the concept of zero waste, a subject of interest to both chemists and environmentalists alike.

This book highlights the potential and scope of green chemistry for clean and sustainable development. Covering the basics, the book introduces readers to the need and the many

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applications and benefits and advantages of environmentally friendly chemical practice and application in industry. The book addresses such topics as ecologically safe products, catalysts and solvents, conditions needed to produce such products, types of chemical processes that are conducive to green chemistry, and much more.

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Chitosan in Biomedical Applications provides a thorough insight into the complete chitosan chemistry, collection, chemical modifications, characterization and applications of chitosan in biomedical applications and healthcare fields. Chitosan, a biopolymer of natural origin, has been explored for its variety of applications in

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biomedical research, medical diagnostic aids and material science. It is the second most abundant natural biopolymer after cellulose, and considered as an excellent excipient because of its non-toxic, stable, biodegradable properties. Several research innovations have been made on applications of chitosan in biomedical applications. The

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book explores key topics, such as molecular weight, degree of deacetylation, and molecular geometry, along with an emphasis on recent advances in the field written by academic, industry, and clinical researchers. Chitosan in Biomedical Applications will be of interest to those in biomedical fields including the biomaterials and tissue

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engineering community investigating and developing biomaterials for biomedical applications, particularly graduate students, young faculty and others exploring chitosan-based materials. Provides methodology for the design, development and selection of chitosan in biomedical applications for particular therapeutic applications Includes

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illustrations demonstrating the mechanism of biological interaction of chitosan
Discusses the regulatory aspects and demonstrates the clinical efficacy of chitosan
Stressing strategic and technological solutions to medicinal chemistry challenges, this book presents methods and practices for optimizing the chemical aspects of drug

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discovery. Chapters discuss benefits, challenges, case studies, and industry perspectives for improving drug discovery programs with respect to quality and costs.

- Focuses on small molecules and their critical role in medicinal chemistry, reviewing chemical and economic advantages, challenges, and trends in the

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field from industry perspectives • Discusses novel approaches and key topics, like screening collection enhancement, risk sharing, HTS triage, new lead finding approaches, diversity-oriented synthesis, peptidomimetics, natural products, and high throughput medicinal chemistry approaches • Explains how to reduce

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design-make-test cycle times by integrating medicinal chemistry, physical chemistry, and ADME profiling techniques • Includes descriptive case studies, examples, and applications to illustrate new technologies and provide step-by-step explanations to enable them in a laboratory setting
Bioactivity and Biomedical Applications

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SOUVENIR of 2nd International Science
Congress (ISC-2012)

Engineering Mathematics - Ii

Inorganic Oxide Materials, Volume 2

Engineering Chemistry

Held Under the Auspices of IUPAC

Division on Physical Chemistry in Amritsar
(India), 5-8 January 1997

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Providing the reader with an up to date digest of the most important current research carried out in the field, this volume is compiled and written by leading experts from across the globe. It reviews the trends in electrochemical sensing and its

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applications and touches on research areas from a diverse range including microbial electrosynthesis for bio-based production using renewable electricity and recent advances in inorganic nanostructured materials for electrochemical

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water splitting. The reviews of established and current interest in the field make this book a key reference for researchers in this exciting and developing area. Surfactants are often completely invisible to us and yet they are present in almost every chemical

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that we use in our daily life. They are found in toothpastes, cosmetics, sunscreens, mayonnaise, detergents, and an array of cleaning products. Traditional surfactants are known to have adverse environmental impacts spurring

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research into eco-friendly and cost-effective surfactants from renewable resources. Surfactants from Renewable Raw Materials examines the class of surfactants synthesized using plant-based raw materials detailing their properties, applications,

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bioavailability, and biodegradability. The concluding chapter reviews patent activity over the last decade. Additional features include: Addresses the tremendous variation found in the raw materials used to synthesize commercially

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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 and medicinal applications of pulmonary

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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.

Protein Byproducts:
Transformation from
Environmental Burden into Value-
Added Products deals with the

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added value of proteinaceous waste byproducts, discussing in detail the different sources of protein-rich byproducts, their extraction, recovery, and characterization. The book provides thorough insights into different protein modification

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techniques to extend the product portfolio using these waste byproducts. Divided between three main sections, the book covers various feedstock resources, such as animal-derived/plant-derived proteins, marine waste-derived proteins,

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protein extraction and recovery methods, and related technical issues including modification and conversion technologies for the production of high value bioproducts. It contains contributions from experts in the fields of applied industrial

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microbiology, engineering,
bioprocess technology, protein
chemistry, food chemistry,
agriculture, plant sciences,
environmental science, and waste
management, serving as a
comprehensive reference for
students and research scientists

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in the food and agriculture industries. Covers various feedstock resources, protein extraction, recovery methods, and related technical issues
Presents modification and conversion technologies for the production of high value

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bioproducts Exhibits case studies and examples to illustrate both driving forces and constraints in the utilization of these proteinaceous materials Contains contributions from experts in the fields of applied industrial microbiology, engineering,

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bioprocess technology, protein chemistry, food chemistry, agriculture, plant sciences, environmental science, and waste management Serves as a comprehensive reference for students and research scientists in the food and agriculture

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industries

This new volume, Natural Polymers for Pharmaceutical Applications, Volume 1: Plant-Derived Polymers, presents some of the latest research on the applications of natural polymers in drug delivery and therapeutics

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for healthcare benefits. Polymers and their applications from several plants are discussed in depth, including tamarind gum, gum Arabic, natural carbohydrate polymer gum tragacanth, pectin, guar gum and its derivatives, locust bean gum,

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sterculia gum, okra gum, and others. The use of the polymers derived from plants as potential pharmaceutical excipients is expanding day by day because of their stability in the biological system, drug-releasing capability, drug-targeting abilities, as well

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as their bioavailability.
Biological Macromolecules
Transformation from
Environmental Burden Into Value-
Added Products
Chitosan in Biomedical
Applications
A TEXTBOOK OF ENGINEERING

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CHEMISTRY

Journal of Applied Chemistry of
the USSR.

Protein Byproducts

This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and

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nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

This valuable new book, Handbook of Research on Medicinal Chemistry: Innovations and Methodologies, presents some of the latest advancements in the various fields of combinatorial chemistry,

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drug discovery, biochemical aspects, pharmacology of medicinal agents, current practical problems, and nutraceuticals. The editors keep the drug molecule as the central component of the volume and aim to explain the associated features essential to exhibiting pharmacological activity. With a unique combination of chapters in

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biology, clinical aspects, biochemistry, synthetic chemistry, medicine and technology, the volume provides broad exposure to the essential aspect of pharmaceuticals. The volume many important aspects of medicinal chemistry, including techniques in drug discovery pharmacological aspects of natural

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products chemical mediators: druggable
targets advances in medicinal chemistry
The field of medicinal chemistry is
growing at an unprecedented pace, and
this volume takes an interdisciplinary
approach, covering a range of new
research and new practices in the field.
The volume takes into account the latest

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therapeutic guidelines put forward by the World Health Organization and the U.S Food and Drug Administration.. Topics include: drug design drug discovery natural products and supplements and nutraceuticals pharmaceutical approaches to sexual dysfunction drug resistance parasites new natural compounds and

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identification of new targets
stereochemistry aspects in medicinal
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