

Engineering Chemistry Kannan Ravikrishnan

Environmental Science And Engineering (anna University) Photochemistry Advances in Chitin/Chitosan Characterization and Applications Engineering Chemistry - II: For JNTUK Chemical Engineering Faculty Directory An Introduction to Bioceramics **ELEMENTS OF ENVIRONMENTAL SCIENCE AND ENGINEERING** Engineering Chemistry **Impact of COVID-19 on Emerging Contaminants Sarah's Valley** **A TEXTBOOK OF ENGINEERING CHEMISTRY** Polymeric Biomaterials: Structure and function **BIOSPERATIONS** Engineering Mechanics **Nanochemistry** **Analytical Pyrolysis** **Engineering Chemistry Elements Of Mercantile Law** **Engineering Chemistry-II (Anna University)** **Diesel and Gasoline Engines** Mathematics Of Physics And Engineering Inorganic and Organometallic Polymers Mechanochemical Organic Synthesis **Advanced Engineering Fluid Mechanics** **Green Nanomaterials Siloxanes in the Nordic Environment** Advances in Macromolecular Chemistry Strength of Materials A Textbook Of Engineering Mechanics (As Per Jntu Syllabus) Polymeric Gene Delivery Systems THEORY AND PRACTICE OF FOUNDATION DESIGN **Biomass, Biofuels, Biochemicals** A Textbook of Applied Electronics Engineering Physics-I **Advanced Machining Processes** Gene Delivery Fundamental Concepts of Environmental Chemistry **Chemical Kinetics and Mechanism Organic Reaction Mechanisms 2014** Nanomaterials in the Environment

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Diesel and Gasoline Engines Mar 09 2021

Sarah's Valley Jan 19 2022 Sarah's dream was to live in a beautiful valley with a slow moving river running through it. This was a big dream for a young girl who, along with her brother Frank, were orphaned early in life. Their parents died with the wagon train on the way to California in the early 1800's. Sarah and Frank were the only survivors. How would two children survive the highway men, the raging grassfires, the cold winters and the heartache? This is their life story as told through the eyes of an old Indian man named Winnipесаaukee.

Advances in Macromolecular Chemistry Aug 02 2020

Gene Delivery Oct 24 2019 Gene therapy has been regarded as a great potential for specific treatment of gene-related human diseases, such as cancer, genetic and epidemic diseases. Gene therapy refers to the biomedical technology that inserts normal or therapeutic exogenous genes into target cells to repair or replace defective genes in target cells, so as to achieve the purpose of treating diseases. Efficient gene delivery systems are the crucial roles for successful implementation of gene therapy. This book provides a platform for young scholars and students to systematically understand the preparation and characterization of the existing non-viral gene delivery systems, as well as providing a technology platform for clinical gene therapy

Advanced Machining Processes Nov 24 2019

BIOSPERATIONS Oct 16 2021 This systematically organized and well-balanced book compresses within the covers of a single volume the theoretical principles and techniques involved in bio-separations, also called downstream processing. These techniques are derived from a range of subjects, for example, physical chemistry, analytical chemistry, bio-chemistry, biological science and chemical engineering. Organized in its 15 chapters, the text covers in the first few chapters topics related to chemical engineering unit operations such as filtration, centrifugation, adsorption, extraction and membrane separation as applied to bioseparations. The use of chromatography as practiced at laboratory as well as industrial scale operation and related techniques such as gel filtration, affinity and pseudoaffinity chromatography, ion-exchange chromatography, electrophoresis and related methods have been discussed. The important applications of these techniques have also been highlighted.

Chemical Kinetics and Mechanism Aug 22 2019 Chemical Kinetics and Mechanism considers the role of rate of reaction. It begins by introducing chemical kinetics and the analysis of reaction mechanism, from basic well-established concepts to leading edge research. Organic reaction mechanisms are then discussed, encompassing curly arrows, nucleophilic substitution and E1 and E2 elimination reactions. The book concludes with a Case Study on Zeolites, which examines their structure and internal dimensions in relation to their behaviour as molecular sieves and catalysts. The accompanying CD-ROM contains the "Kinetics Toolkit", a graph-plotting application designed for manipulation and analysis of kinetic data, which is built into many of the examples, questions and exercises in the text. There are also interactive activities illustrating reaction mechanisms. The Molecular World series provides an integrated introduction to all branches of chemistry for both students wishing to specialise

and those wishing to gain a broad understanding of chemistry and its relevance to the everyday world and to other areas of science. The books, with their Case Studies and accompanying multi-media interactive CD-ROMs, will also provide valuable resource material for teachers and lecturers. (The CD-ROMs are designed for use on a PC running Windows 95, 98, ME or 2000.)

A TEXTBOOK OF ENGINEERING CHEMISTRY Dec 18 2021 Any good text book, particularly that in the 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 the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Advanced Engineering Fluid Mechanics Nov 05 2020 Fluid mechanics continues to dominate the world of engineering. This book bridges the gap between first and higher level text books on the subject. It shows that the approximate approaches are essentially globally averaged versions of the local treatment, that in turn is covered in considerable detail in the second edition.

Siloxanes in the Nordic Environment Sep 03 2020 Siloxanes belong to a group of substances used in a number of industrial applications and in consumer products such as additives in fuel, car polish, cleaners, anti foamers and car waxes. Besides this, they are widely used in e.g. personal care and biomedical products. As a result of their wide use, siloxanes are presumably spread into the environment both via point sources and via diffuse sources and may be found in the environment. Recent studies have suggested that siloxanes may have direct or indirect toxic effects on various biological processes. The aim of this screening study was to obtain a snapshot of the occurrence of siloxanes in the Nordic environment. The here presented screening study involved six countries: Denmark, Faroe Islands, Finland, Iceland, Norway and Sweden. Sampled media types were air, biota, sediment, sludge, soil and water. Siloxanes were found in all the analysed sample types except soils. The results indicate that there is a general pollution of siloxanes in the Nordic environment, close to dense population and major sources. There was, however, a great variation in concentrations. The cyclic siloxanes occurred in all media in significantly higher concentrations than the linear siloxanes. At present, the observed concentrations are not alarmingly high, and many background sites seem to be non-contaminated. However, the use of siloxanes is extensive and it is possible that continued use will lead to increased environmental levels, eventually reaching effect concentrations.

Engineering Mechanics Sep 15 2021 Engineering Mechanics is a textbook specifically designed for a one-semester interdisciplinary course offered at the university level for undergraduate engineering programmes in India.

Engineering Chemistry Mar 21 2022

Polymeric Gene Delivery Systems Apr 29 2020 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. The chapter "Polymeric Nanoparticle-Mediated Gene Delivery for Lung Cancer Treatment" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Photochemistry Sep 27 2022 Compiled by teams of leading authorities this Specialist Periodical Report on Photochemistry aims to provide an annual review of photo-induced processes.

Fundamental Concepts of Environmental Chemistry Sep 22 2019 Discussing the influence of environmental factors on both living and nonliving entities, this text places special emphasis on human health problems such as mutagenesis, teratogenesis and carcinogenesis, as well as looking at the major global issues of energy conservation, acid rain and greenhouse gases.

A Textbook of Applied Electronics Jan 27 2020 The present book has been thoroughly revised and lot of useful material has been added. Several photographs of electronic devices and their specifications sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistake and misprints, which have crept in, have been eliminated in this edition.

Advances in Chitin/Chitosan Characterization and Applications Aug 26 2022 Functional advanced biopolymers have received far less attention than renewable biomass (cellulose, rubber, etc.) used for energy production. Among the most advanced biopolymers known is chitosan. The term chitosan refers to a family of polysaccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere. Chitosan has been firmly established as having unique material properties as well as biological activities. Either in its native form or as a chemical derivative, chitosan is amenable to being processed—typically under mild conditions—into soft materials such as hydrogels, colloidal nanoparticles, or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene transfectability, and metal adsorption—to name but a few—chitosan is regarded as a widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated account addressing some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization, as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and applications.

Biomass, Biofuels, Biochemicals Feb 26 2020 Biomass, Biofuels, Biochemicals: Lignin Biorefinery discusses the scientific and

technical information relating to the structure and physico-chemical characteristics of lignin. The book covers the different processes (biological, thermal and catalytic routes) available for lignin conversion into specialty chemicals or fuels, activity relationships, and how optimized process parameters help establish the feasible size of the commercial plant in a centralized or decentralized model. In addition, the advantages and limitations of different technologies are discussed, considering local energy, chemicals, biopolymers, drug intermediates, activated carbons, and much more. Includes information on the most advanced and innovative processes for lignin conversion Covers information on biochemical and thermo-chemical processes for lignin valorization Provides information on lignin chemistry and its conversion into high value chemicals and fuels Presents a book designed as a text book, not merely a collection of research articles

Inorganic and Organometallic Polymers Jan 07 2021 The book covers silicon, phosphorus, sulfur, tin and germanium based inorganic polymers. It also includes chapters on organometallic polymers, transition metal based coordination polymers and geopolymers. The book is ideal for students and career starters in the industry.

Mathematics Of Physics And Engineering Feb 08 2021 Aimed at scientists and engineers, this book is an exciting intellectual journey through the mathematical worlds of Euclid, Newton, Maxwell, Einstein, and Schrodinger-Dirac. While similar books present the required mathematics in a piecemeal manner with tangential references to the relevant physics and engineering, this textbook serves the interdisciplinary needs of engineers, scientists and applied mathematicians by unifying the mathematics and physics into a single systematic body of knowledge but preserving the rigorous logical development of the mathematics. The authors take an unconventional approach by integrating the mathematics with its motivating physical phenomena and, conversely, by showing how the mathematical models predict new physical phenomena.

Chemical Engineering Faculty Directory Jun 24 2022 This up-to-date faculty directory lists the contact information of all the faculty members, placement administrators, and student organizations of almost 500 worldwide universities and technical institutes offering chemical engineering curricula. This offers a comprehensive reference tool that is unique and valuable, in that there is no such directory available on chemical engineering. The indices make it easy to find the current affiliation of any chemical, biological and environmental engineering faculty by listing in alphabetical order.

Elements Of Mercantile Law May 11 2021

An Introduction to Bioceramics May 23 2022 This is the second edition of the classic book An Introduction to Bioceramics which provides a comprehensive overview of all types of ceramic and glass materials that are used in medicine and dentistry. The enormous growth of the field of bioceramics is due to the recognition by the medical and dental community of the importance of bioactive materials to stimulate repair and regeneration of tissues. This edition includes 21 new chapters that document the science and especially the clinical applications of the new generation of bioceramics in the field of tissue regeneration and repair. Important socioeconomic factors influencing the economics and availability of new medical treatments are covered with updates on regulatory procedures for new biomaterials, methods for technology transfer and ethical issues. The book contains 42 chapters that offer the only comprehensive treatment of the science, technology and clinical applications of all types of bioceramic materials used in medicine and dentistry. Each chapter is written by leaders in their specialized fields and is a thorough review of the subject matter, unlike many conference proceedings. All chapters have been edited to reflect the same writing style, making the book an easy read. The completeness of treatment of all types of bioceramics and their clinical applications makes the book unique in the field and invaluable to all readers.

Engineering Physics-I Dec 26 2019

Environmental Science And Engineering (anna University) Oct 28 2022 Environmental Science And Engineering Pertain To A Systematic Analysis Of The Natural And Man-Made World Encompassing Various Scientific, Economic, Social And Ethical Aspects. Human Impacts Leading To Large-Scale Degradation Of The Environment Have Aroused Global Concern On Environmental Issues In The Recent Years. The Apex Court Has Hence, Issued Directive To Impart Environmental Literacy To All. In This Book The Fundamental Concepts Of Environmental Science And Engineering Have Been Introduced And Analyzed In A Simple Manner Strictly As Per The Anna University Iind And Iiird Semester Syllabus. Besides The Undergraduate Students Of All Disciplines The Book Will Also Be Useful For Those Appearing In Various Competitive Exams Since Environmental Issues Now Find A Focus In Most Of Such Examinations. The Contents Of The Book Will Be Of Interest To All Educationists, Planners And Policy Makers. Key Features Of The Book Include A Simple And Holistic Approach With Illustrations, Tables And Specific Case Studies Mainly In The Indian Context. The Basic Terminologies Have Been Defined In The Text While Introducing The Topics And Some Useful Terms Mentioned In The Text Have Been Explained In The Glossary For An Easy Grasp By Students Of All Disciplines.

Strength of Materials Jul 01 2020 Presents in-depth coverage of fundamental and advanced concepts of strength of materials for mechanical and civil engineering students.

Organic Reaction Mechanisms 2014 Jul 21 2019 Organic Reaction Mechanisms 2014, the 50th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2014. The following classes of organic reaction mechanisms are comprehensively reviewed: Reaction of Aldehydes and Ketones and their Derivatives Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives Oxidation and Reduction Carbenes and Nitrenes Nucleophilic Aromatic Substitution Electrophilic Aromatic Substitution Carbocations Nucleophilic Aliphatic Substitution Carbanions and Electrophilic Aliphatic Substitution Elimination Reactions Polar Addition Reactions Cycloaddition Reactions Molecular Rearrangements An experienced team of authors compile these reviews every year, so that the reader can rely on a continuing quality of selection and presentation. This volume includes a 5-year cumulative index.

Mechanochemical Organic Synthesis Dec 06 2020 Mechanochemical Organic Synthesis is a comprehensive reference that not only synthesizes the current literature but also offers practical protocols that industrial and academic scientists can immediately put to use in their daily work. Increasing interest in green chemistry has led to the development of numerous environmentally-

friendly methodologies for the synthesis of organic molecules of interest. Amongst the green methodologies drawing attention, mechanochemistry is emerging as a promising method to circumvent the use of toxic solvents and reagents as well as to increase energy efficiency. The development of synthetic strategies that require less, or the minimal, amount of energy to carry out a specific reaction with optimum productivity is of vital importance for large-scale industrial production. Experimental procedures at room temperature are the mildest reaction conditions (essentially required for many temperature-sensitive organic substrates as a key step in multi-step sequence reactions) and are the core of mechanochemical organic synthesis. This green synthetic method is now emerging in a very progressive manner and until now, there is no book that reviews the recent developments in this area. Features cutting-edge research in the field of mechanochemical organic synthesis for more sustainable reactions Integrates advances in green chemistry research into industrial applications and process development Focuses on designing techniques in organic synthesis directed toward mild reaction conditions Includes global coverage of mechanochemical synthetic protocols for the generation of organic compounds

Nanochemistry Aug 14 2021 International interest in nanoscience research has flourished in recent years, as it becomes an integral part in the development of future technologies. The diverse, interdisciplinary nature of nanoscience means effective communication between disciplines is pivotal in the successful utilization of the science. *Nanochemistry: A Chemical Approach to Nanomaterials* is the first textbook for teaching nanochemistry and adopts an interdisciplinary and comprehensive approach to the subject. It presents a basic chemical strategy for making nanomaterials and describes some of the principles of materials self-assembly over 'all' scales. It demonstrates how nanometre and micrometre scale building blocks (with a wide range of shapes, compositions and surface functionalities) can be coerced through chemistry to organize spontaneously into unprecedented structures, which can serve as tailored functional materials. Suggestions of new ways to tackle research problems and speculations on how to think about assembling the future of nanotechnology are given. Primarily designed for teaching, this book will appeal to graduate and advanced undergraduate students. It is well illustrated with graphical representations of the structure and form of nanomaterials and contains problem sets as well as other pedagogical features such as further reading, case studies and a comprehensive bibliography.

Analytical Pyrolysis Jul 13 2021 *Analytical Pyrolysis* presents the Proceedings of the Third International Symposium on Analytical Pyrolysis, held in Amsterdam on September 7-9, 1976. It looks at newly emergent techniques in analytical pyrolysis, including pyrolysis mass spectrometry, gas chromatography, thin-layer chromatography, and pyrolysis-gas liquid chromatography. The book also covers topics ranging from automation and microbiology to forensic science and pharmacology, reproducibility and specificity, biochemistry, laser-induced pyrolysis, pyrolytic reaction mechanisms, and polymers. Comprised of 50 chapters, this book begins with a discussion of automatic analysis of tire rubber blends using computer-linked pyrolysis gas chromatography, thermal procedures in coupling with thin-layer chromatography, the role of pyrolysis-gas liquid chromatography in biomedical studies, and the identification of microorganisms by pyrolysis gas-liquid chromatography. It then examines forensic applications of analytical pyrolysis techniques, structure and degradation behavior of synthetic polymers using pyrolysis in combination with field ion mass spectrometry, determination of polysaccharides in fulvic acids by pyrolysis gas chromatography, and application of Curie-point pyrolysis mass spectrometry in fungal taxonomy. The reader is also introduced to pyrolysis mass spectrometry of model compounds labeled with stable isotopes, the use of pyrolysis/gas chromatography to determine the quality of porous polymers of styrene cross-linked with divinyl benzene, and application of pyrohydrolysis for a rapid and accurate determination of halides in silicate rocks and minerals. This volume will benefit students, researchers, chemists, and scientists working in the field of analytical pyrolysis.

Green Nanomaterials Oct 04 2020 This book comprises a collection of chapters on advances in green nanomaterials. The book looks at ways to establish long-term safe and sustainable forms of nanotechnology through implementation of nanoparticle biosynthesis with minimum impact on the ecosystem. The book looks at synthesis, processing, and applications of metal and metal oxide nanomaterials and also at bio-nanomaterials. The contents of this book will prove useful for researchers and professionals working in the field of nanomaterials and green technology.

A Textbook Of Engineering Mechanics (As Per Jntu Syllabus) May 31 2020 Engineering Mechanics Is A Core Subject Taught To Engineering Students In The First Year Of Their Course By Going Through This Subject. The Students Develop The Capability To Model Actual Problem In To An Engineering Problem And Find The Solutions Using Laws At Mechanics. The Neat Free-Body Diagrams Are Presented And Problems Are Solved Systematically To Make The Procedure Clear. Throughout Si Units And Standard Notations Are Recommended By Indian Standard Codes Are Used. The Author Has Tried To Meet The Needs Of Syllabi Of Almost All Universities.

THEORY AND PRACTICE OF FOUNDATION DESIGN Mar 29 2020 This comprehensive text on foundation design is intended to introduce students of civil engineering, architecture, and environmental disciplines to the fundamentals of designing sound foundations and their implementation. It offers an in-depth coverage of pre- and post-design methodologies that include soil identification, site investigation, interpretation of soil data and design parameters, foundations on different soil types through to settlements, seismic responses, and construction concerns. Though the book is woven around principles of foundation design, it also incorporates application aspects that bridge theory and practice. As an issue of contemporary importance it discusses geotechnical details of developing earthquake resistant designs for different soil types. In addition, the authors provide an extensive account of ground improvement techniques. Supported by the abundance of real-world events/situations and examples that help students master the text concepts, this volume becomes an incisive text and reference guide.

Engineering Chemistry Jun 12 2021 This book on Engineering Chemistry has been entirely rewritten in order to make it up-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 various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of

some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

ELEMENTS OF ENVIRONMENTAL SCIENCE AND ENGINEERING Apr 22 2022 Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and control engineering for students of civil engineering, this comprehensive text, now in its Second Edition provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection. This edition introduces a new chapter on Environment and Human Health. **KEY FEATURES :** Gives in-depth yet lucid analysis of topics, making the book user-friendly. Covers important topics, which are adequately supported by illustrative diagrams. Provides case studies to explore real-life problems. Supplies review questions at the end of each chapter to drill the students in self-study.

Nanomaterials in the Environment Jun 19 2019 This text presents the most current knowledge on the environmental impact of materials and products developed using nanotechnology. Although nanomaterials are revolutionising electronics, medicine, transportation and many other industries, they pose risks to living beings and ecosystems that are barely understood. Leading researchers here consider the science of nanomaterials, their behaviour in the environment, risk assessment and toxicology, and the future of nanomaterials.

Engineering Chemistry - II: For JNTUK Jul 25 2022 Engineering Chemistry II: For JNTUK is designed to cater to the needs of the undergraduate engineering students of JNTU Kakinada. Written in a lucid style, the book offers comprehensive coverage of the important topics with neatly drawn diagrams for easy understanding of the underlying concepts. Various key topics like biodegradable polymers, nanotechnology, green chemistry, lubricants, ceramics, abrasives, refractories and cement have been dealt with in detail.

Engineering Chemistry-II (Anna University) Apr 10 2021 Engineering Chemistry-II serves as a textbook for the second semester course for I year BE/B. Tech students of Anna University, Chennai. The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers. The theoretical portions have been explained in simple language, clear style with lot of solved problems and illustrated diagrams. Academic and industrial communities will find this book a valuable resource. **Key Features** • Specifically designed for I year B.E. students of colleges affiliated to Anna University, Chennai. • The chapters are presented in simple language. • Suitable diagrams for clear understanding of the concepts. • The recent developments in the respective fields are included in all the chapters. • Comparative tables are presented where ever two similar concepts arise. • Many solved problems. • Review questions from previous Anna University examinations at the end of each chapter.

Polymeric Biomaterials: Structure and function Nov 17 2021 The third edition of a bestseller, this comprehensive reference presents the latest polymer developments and most up-to-date applications of polymeric biomaterials in medicine. Expanded into two volumes, the first volume covers the structure and properties of synthetic and natural polymers as well as bioresorbable hybrid membranes, drug delivery systems, cell bioassay systems, and electrospinning for regenerative medicine. This substantially larger resource includes state-of-the-art research and successful breakthroughs in applications that have occurred in the last ten years.

Impact of COVID-19 on Emerging Contaminants Feb 20 2022 The book brings out several unique perspectives of impacts of COVID-19 on the environment with special emphasis on the risk and remediation of emerging contaminants. Idea is to work out under the one health framework and comprehend not only scientific and technical aspects but also environmental, legal and policy aspects for water resources management. The obvious stress is given to the occurrence, fate and transport of geogenic, microbial and anthropogenic contaminants of emerging concern under the preview of the fact that antibiotic and antiviral use has been unprecedented during the global pandemic of COVID-19. At the same time, this edited volume touches upon the broader framework of integrated water resource management, as well as mitigation and removal strategies to put forward a holistic picture to the readers and policymakers. These contents are divided into three sections: a) monitoring, occurrence, distribution and fate of emerging contaminants; b) source and effects of these contaminants on the total environment; and c) treatment strategies, natural attenuation and mitigation.