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Encyclopedia Of Chemical Processing And Design Volume 54 Steam Reforming Operating Experience To Storage Tank Explosion Safeguards Chemical Processing And Design Encyclopedia

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Encyclopedia of Chemical Processing

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members),this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

Concise Encyclopedia of Self-Propagating High-Temperature Synthesis

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Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-up criteria.

Chemical and Process Technology Encyclopedia

Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry summarizes current, fundamental knowledge of interfacial chemistry, bringing readers the latest developments in the field. As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities, its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro-catalysts in food production, pollution control, energy conversion and storage, medical applications requiring biocompatibility, drug delivery, and more. This book provides an interdisciplinary view that lies at the

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intersection of these fields. Presents fundamental knowledge of interfacial chemistry, surface science and electrochemistry and provides cutting-edge research from academics and practitioners across various fields and global regions

Encyclopedia of Chemical Processing and Design

Brings together in a single volume the many facets of inorganic, organic and physical chemistry, and of chemical, metallurgical and process engineering.

Encyclopedia of Chemical Processing and Design

The Concise Encyclopedia of Self-Propagating High-Temperature Synthesis: History, Theory, Technology, and Products helps students and scientists understand the fundamental concepts behind self-propagating high-temperature synthesis (SHS). SHS-based technologies provide valuable alterations to traditional methods of material fabrication, such as powder metallurgy, conventional and force sintering, casting, extrusion, high isostatic pressure sintering, and others. The book captures the whole spectrum of the chemistry, physics, reactions, materials, and processes of self-propagating high-temperature synthesis. This book is an indispensable resource not only to scientists working in the field of SHS, but also to researchers in multidisciplinary fields such as chemical engineering, metallurgy, material science, combustion, explosion, and the chemistry of solids.

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Written by high-level experts in the field from 20 different countries, along with editors who are founders of the field. Covers 169 topics in the field of SHS. Features new phenomena, such as acoustics and high-energy reactions in combustion synthesis. Provides an overview of many aspects of the constructive application of the combustion phenomenon, for example, in the fabrication of advanced materials.

Encyclopedia of Chemical Processing and Design

This is a valuable reference that gives chemical and industrial engineers and technicians concise, accurate descriptions of process equipment. This handy source provides fingertip access to the details and definitions of hundreds of major types of machinery and equipment. In addition to explaining and illustrating the technology, it defines engineering terminology and includes typical applications, operating limits and variables, and overviews of design and operating principles.

Pesticide Formulations and Application Systems

Waste. Nuclear Reprocessing and Treatment Technologies to Waste, Solid, Trash Facts

Encyclopedia of Toxicology

Famous for its history of numerous element

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discoverers, Sweden is the origin of this comprehensive encyclopedia of the elements. It provides both an important database for professionals as well as detailed reading ranging from historical facts, discoverers' portraits, colour plates of mineral types, natural occurrences, and industrial figures to winning and refining processes, biological roles and applications in modern chemistry, engineering and industry. Elemental data is presented in fact tables which include numerous physical and thermodynamic properties, isotope lists, radiation absorption characteristics, NMR parameters, and others. Further pertinent data is supplied in additional tables throughout the text. Published in Swedish in three volumes from 1998 to 2000, the contents have been revised and expanded by the author for this English edition.

Encyclopedia of Meat Sciences

Encyclopedia of Food Chemistry

With the world's growing population, the provision of a safe, nutritious and wholesome food supply for all has become a major challenge. To achieve this, effective risk management based on sound science and unbiased information is required by all stakeholders, including the food industry, governments and consumers themselves. In addition, the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among

authorities in countries around the world. With some 280 chapters, the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics, which may be grouped under the following general categories: History and basic sciences that support food safety; Foodborne diseases, including surveillance and investigation; Foodborne hazards, including microbiological and chemical agents; Substances added to food, both directly and indirectly; Food technologies, including the latest developments; Food commodities, including their potential hazards and controls; Food safety management systems, including their elements and the roles of stakeholders. The Encyclopedia provides a platform for experts from the field of food safety and related fields, such as nutrition, food science and technology and environment to share and learn from state-of-the art expertise with the rest of the food safety community. Assembled with the objective of facilitating the work of those working in the field of food safety and related fields, such as nutrition, food science and technology and environment - this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as: contributions by the foremost authorities in their fields; unbiased and concise overviews on a multitude of food safety subjects; references for further information, and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply, sound scientific information is key to effectively and efficiently

assessing, managing and communicating on food safety risks. Yet, professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise. This single source of concise, reliable and authoritative information on food safety has, more than ever, become a necessity

Condensed Encyclopedia of Polymer Engineering Terms

Many believe that the silicon/information age is heading to the Age of Biology and that the next frontier in ceramics will most likely require molecular level or nanoscale control. What, then, is the role of ceramics in the age of biology? As we change from an energy-rich society to an energy-declining society, how can ceramic materials appease the problem? This new edition of Chemical Processing of Ceramics offers a scientific and technological framework for achieving creative solutions to these questions. Edited by experts and containing chapters by leading researchers in the field, the book uses an interdisciplinary approach to cover topics ranging from starting materials to device applications. The book begins with a discussion of starting material, highlighting how to prepare and modify them in the nanoscale range. The chapter authors discuss the synthesis, characterization, and behavior of ceramic powders, the processing of ceramic films via sol-gel technique, and the fabrication of nonoxide ceramics. They also present coverage of several specific thin

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films, membranes, ferroelectrics, bioceramics, dielectrics, batteries, and superconductors. Although the book is edited, it is organized to reflect the chemical sequence of ceramic processing and the coherent theme of chemical processing for advanced ceramic materials. The coverage of molecular/nanoprocessing techniques that result in new materials will enable researchers and engineers to meet the challenge of producing inorganic materials for use in the applications of the future.

Encyclopedia of Food Safety

""Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries.

Encyclopedia and Handbook of Materials, Parts and Finishes

Encyclopedia of Chemical Physics and Physical Chemistry: Applications

The second edition of the Encyclopedia of Toxicology continues its comprehensive survey of toxicology. This new edition continues to present entries devoted to key concepts and specific chemicals. There has been an increase in entries devoted to international organizations and well-known toxic-related incidents

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such as Love Canal and Chernobyl. Along with the traditional scientifically based entries, new articles focus on the societal implications of toxicological knowledge including environmental crimes, chemical and biological warfare in ancient times, and a history of the U.S. environmental movement. With more than 1150 entries, this second edition has been expanded in length, breadth and depth, and provides an extensive overview of the many facets of toxicology. Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. *Second edition has been expanded to 4 volumes *Encyclopedic A-Z arrangement of chemicals and all core areas of the science of toxicology *Covers related areas such as organizations, toxic accidents, historical and social issues, and laws *New topics covered include computational toxicology, cancer potency factors, chemical accidents, non-lethal chemical weapons, drugs of abuse, and consumer products and many more!

Chemical Engineer's Condensed Encyclopedia of Process Equipment

Encyclopedia of Chemical Processing and Design

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The Encyclopedia of Chemical Electrode Potentials

The Encyclopedia of Food and Health provides users with a solid bridge of current and accurate information spanning food production and processing, from distribution and consumption to health effects. The Encyclopedia comprises five volumes, each containing comprehensive, thorough coverage, and a writing style that is succinct and straightforward. Users will find this to be a meticulously organized resource of the best available summary and conclusions on each topic. Written from a truly international perspective, and covering of all areas of food science and health in over 550 articles, with extensive cross-referencing and further reading at the end of each chapter, this updated encyclopedia is an invaluable resource for both research and educational needs. Identifies the essential nutrients and how to avoid their deficiencies Explores the use of diet to reduce disease risk and optimize health Compiles methods for detection and quantitation of food constituents, food additives and nutrients, and contaminants Contains coverage of all areas of food science and health in nearly 700 articles, with extensive cross-referencing and further reading at the end of each chapter

Encyclopedia of Chemical Processing and Design

Covers the fundamentals of supramolecular chemistry; supramolecular advancements and

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methods in the areas of chemistry, biochemistry, biology, environmental and materials science and engineering, physics, computer science, and applied mathematics.

Chemical Processing of Ceramics, Second Edition

Chemical Processing Handbook

Encyclopedia of Interfacial Chemistry

A great deal of progress has been made in the development of materials, their application to structures, and their adaptation to a variety of systems and integrated across a wide range of industrial applications. This encyclopedia serves the rapidly expanding demand for information on technological developments. In addition to providing information

Encyclopedia of Food & Color Additives

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

Encyclopedia of Chemical Processing and

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Design

Encyclopedia of Chemical Processing and Design: Methanol from coal, cost projections to motors, electric

This 69th volume presents information on circulating fluidized bed reactors and looks at subjects ranging from basic concepts and hydrodynamics to structure, properties and applications of polyolefines produced by single-site catalyst technology.

Encyclopedia of Chemical Processing and Design

This handbook has been prepared as a working reference for the safety officer, the environmental engineer, and the consultant. For the safety officer, this handbook provides detailed guidelines and instructions in preparing Right-to-Know Reporting Audits, establishing programs and training employees on hazard awareness, and developing and implementing emergency response programs in the workplace and at off-site operations. For the environmental engineer, this handbook provides extensive technical data on toxic chemical properties and detailed instructional aid on how to properly prepare toxic chemical release inventory reporting. For the environmental consultant, an extensive overview of corrective action technologies is provided.

Introduction to Chemical Engineering Computing

The Encyclopedia of Physical Science and Technology contains in-depth presentations on all of today's critical technology areas, including: Materials synthesis and processing Electronic and photonic materials synthesis and processing Electronic and photonic materials Ceramics Composites High performance metals and alloys Flexible computer-integrated manufacturing Intelligent process equipment Micro- and nano-fabrication Software Microelectronics and opto-electronics High performance computing and networking High definition imaging and displays Sensors and signal processing Data storage and peripherals Computer simulation and modeling Aeronautics Surface transportation technologies Energy technologies Pollution remediation and waste management These technologies were specified as critical by a thirteen-member National Critical Technologies panel composed of government and private-sector members and chaired by chemist William D. Phillips. The Encyclopedia of Physical Science and Technology contains in-depth first-principle and applications descriptions of all the major emerging technologies in the physical sciences, including: Advanced materials Advanced semiconductor devices Artificial intelligence Digital imaging technology Flexible computer-integrated manufacturing High-density data storage High-performance computing Opto-electronics Sensor technology Superconductors The completely revised and updated Second Edition includes the following

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contributions: Thirty-one from the University of California that cover subjects ranging from nuclear energy, materials, mathematics, astronomy, and computers to anti-ballistic missile defense systems and laser applications Eighteen from the AT&T Bell Laboratories that cover communications disciplines, such as digital speech processing, telecommunications switching, and optical fibers Eleven from NASA that cover astronomy, atmospheric sciences, and space flight Nine from the University of Illinois that cover subjects ranging from manufacturing process technology and scientific information services to environmental data acquisition and very large scale integration (VLSI design) Eight from United States Navy Research Centers that cover x-ray lasers and telecommunications through non-linear optics and fluid dynamics Eight from the California Institute of Technology that cover astronomy, space sciences, and parallel computing Eight from the University of Colorado that cover subjects ranging from atomic physics ad geochemistry to telecommunications and the materials for microcircuitry Seven from the Electric Power Research Institute that cover power generation systems and air pollution Six from Cornell University that cover the solar system, bioprocess engineering, lasers, and dynamics Countries participating in the preparation of the Encyclopedia include: 76% United States institutions and 24% foreign institutions 12% with the European Economic Community (EEC)--7% of the contributors are from the United Kingdom, 3% are from Germany, and 1% are from Austria 1% Israel, France, and Japan 7% at institutions in Canada--the combination of the United

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SUBJECT

Encyclopedia of Sustainable Technologies

Encyclopedia of Chemical Technology

""Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries.

Encyclopedia of Ocean Sciences

Encyclopedia of Food Chemistry is the ideal primer for food scientists, researchers, students and young professionals who want to acquaint themselves with

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food chemistry. Well-organized, clearly written, and abundantly referenced, the book provides a foundation for readers to understand the principles, concepts, and techniques used in food chemistry applications. Articles are written by international experts and cover a wide range of topics, including food chemistry, food components and their interactions, properties (flavor, aroma, texture) the structure of food, functional foods, processing, storage, nanoparticles for food use, antioxidants, the Maillard and Strecker reactions, process derived contaminants, and the detection of economically-motivated food adulteration. The encyclopedia will provide readers with an introduction to specific topics within the wider context of food chemistry, as well as helping them identify the links between the various sub-topics. Offers readers a comprehensive understanding of food chemistry and the various connections between the sub-topics Provides an authoritative introduction for non-specialists and readers from undergraduate levels and upwards Meticulously organized, with articles structured logically based on the various elements of food chemistry

Encyclopedia of Analytical Science

This third edition of the Encyclopedia of Spectroscopy and Spectrometry provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles, including mass spectrometry, imaging techniques and applications. It

includes the history, theoretical background, details of instrumentation and technology, and current applications of the key areas of spectroscopy. The new edition will include over 80 new articles across the field. These will complement those from the previous edition, which have been brought up-to-date to reflect the latest trends in the field. Coverage in the third edition includes: Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High-Energy spectroscopy Magnetic resonance Mass spectrometry Spatially-resolved spectroscopic analysis Vibrational, rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily. This major reference work continues to be clear and accessible and focus on the fundamental principles, techniques and applications of spectroscopy and spectrometry. Incorporates more than 150 color figures, 5,000 references, and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one-stop resource for quick access to answers and an in-depth examination of topics in the spectroscopy and spectrometry arenas

Encyclopedia of Food and Health

Encyclopedia of Spectroscopy and Spectrometry

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Written by more than 40 world renowned authorities in the field, this reference presents information on plant design, significant chemical reactions, and processing operations in industrial use - offering shortcut calculation methods wherever possible.

Encyclopedia of Chemical Processing and Design

The Encyclopedia of Meat Sciences is an impressive and important body of work. Prepared by an international team of experts, this reference work covers all important aspects of meat science from stable to table, including animal breeding, physiology and slaughter, meat preparation, packaging, welfare, and food safety, to name a few. This Encyclopedia further covers important topics such as food microbiology, meat in human nutrition, biotechnological advances in breeding and many more. The Encyclopedia of Meat Sciences is an invaluable resource to practitioners of meat science and students alike. Also available online via ScienceDirect - featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. Foreword written by Rt. Hon. Helen Clark, Prime Minister of New Zealand Over 200 articles covering all aspects of meat science Reading lists at the end of each article provide further information into primary literature Various figures and

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tables illustrating the text and a color plate section in each volume Appeals to students, academics researchers and professionals working not only in meat science, but also food science, veterinary sciences, agricultural engineering and livestock management Extensive cross-referencing

Handbook of Emergency Response to Toxic Chemical Releases

Step-by-step instructions enable chemical engineers to master key software programs and solve complex problems Today, both students and professionals in chemical engineering must solve increasingly complex problems dealing with refineries, fuel cells, microreactors, and pharmaceutical plants, to name a few. With this book as their guide, readers learn to solve these problems using their computers and Excel, MATLAB, Aspen Plus, and COMSOL Multiphysics. Moreover, they learn how to check their solutions and validate their results to make sure they have solved the problems correctly. Now in its Second Edition, Introduction to Chemical Engineering Computing is based on the author's firsthand teaching experience. As a result, the emphasis is on problem solving. Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering, including: Equations of state Chemical reaction equilibria Mass balances with recycle streams Thermodynamics and simulation of mass transfer equipment Process simulation Fluid flow in two and three dimensions All the chapters

contain clear instructions, figures, and examples to guide readers through all the programs and types of chemical engineering problems. Problems at the end of each chapter, ranging from simple to difficult, allow readers to gradually build their skills, whether they solve the problems themselves or in teams. In addition, the book's accompanying website lists the core principles learned from each problem, both from a chemical engineering and a computational perspective. Covering a broad range of disciplines and problems within chemical engineering, Introduction to Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem.

Encyclopedia of the Elements

Encyclopedia of Physical Science and Technology

Encyclopedia of Sustainable Technologies provides an authoritative assessment of the sustainable technologies that are currently available or in development. Sustainable technology includes the scientific understanding, development and application of a wide range of technologies and processes and their environmental implications. Systems and lifecycle analyses of energy systems, environmental management, agriculture, manufacturing and digital technologies provide a comprehensive method for

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understanding the full sustainability of processes. In addition, the development of clean processes through green chemistry and engineering techniques are also described. The book is the first multi-volume reference work to employ both Life Cycle Analysis (LCA) and Triple Bottom Line (TBL) approaches to assessing the wide range of technologies available and their impact upon the world. Both approaches are long established and widely recognized, playing a key role in the organizing principles of this valuable work. Provides readers with a one-stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field, offering comprehensive coverage of the field and a consistent, high-quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Encyclopedia of Chemical Processing and Design

This reference book provides a comprehensive overview of the nature, manufacture, structure, properties, processing, and applications of commercially available polymers. The main feature of the book is the range of topics from both theory and practice, which means that physical properties and applications of the materials concerned are described in terms of the theory, chemistry and manufacturing constraints which apply to them. It will therefore enable scientists to understand the commercial

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implications of their work as well as providing polymer technologists, engineers and designers with a theoretical background. Provides a comprehensive overview of commercially available polymers Offers a unique mix of theory and application Essential for both scientists and technologists

Encyclopedia of Supramolecular Chemistry

THE FIRST SOURCE TO CONTAIN COMPLETE PROFILES OF 2,500 FOOD ADDITIVES AND INGREDIENTS This 3-volume set provides all the answers to technical, legal, and regulatory questions in clear, nontechnical language. Information once scattered among the Code of Federal Regulations (CFR), other government and technical publications, or only available thr

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Encyclopedia of Chemical Processing and Design. Vol. 19. Energy, Costing Thermal Electric Power Plants to Ethanol

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The oceans cover 70% of the Earth's surface, and are critical components of Earth's climate system. This new edition of Encyclopedia of Ocean Sciences summarizes the breadth of knowledge about them, providing revised, up to date entries as well coverage of new topics in the field. New and expanded sections include microbial ecology, high latitude systems and the cryosphere, climate and climate change, hydrothermal and cold seep systems. The structure of the work provides a modern presentation of the field, reflecting the input and different perspective of chemical, physical and biological oceanography, the specialized area of expertise of each of the three Editors-in-Chief. In this framework maximum attention has been devoted to making this an organic and unified reference. Represents a one-stop. organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical, physical and biological oceanography, the specialized area of expertise of each of the three Editors-in-Chief New and expanded sections include microbial ecology, high latitude systems and climate change Provides scientifically reliable information at a foundational level, making this work a resource for students as well as active researches

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