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Thermodynamics and Thermophysical Properties of Chemical Compounds-Carl L. Yaws 2003 Polymers are substances containing a large number of structural units joined by the same type of linkage. These substances often form into a chain-like structure. Starch, cellulose, and rubber all possess polymeric properties. Today, the polymer industry has grown to be larger than the aluminium, copper and steel industries combined. Polymers already have a range of applications that far exceeds that of any other class of material available to man. Current applications extend from adhesives, coatings, foams, and packaging materials to textile and industrial fibres, elastomers, and structural plastics. Polymers are also used for most composites, electronic devices, biomedical devices, optical devices, and precursors for many newly developed high-tech ceramics. This book presents leading-edge research in this rapidly-changing and evolving field.

Chemical Engineering Design-Ray Sinnott 2009-05-15 Chemical Engineering Design is one of the best-known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year design course, and is widely used as a
solving problems involving multiple scales, such as how a flammable vapor cloud might behave if ignited, this book provides information on the fundamental topics of toxic, fire, and air explosion modeling, as well as modeling jet and pool fires using computational fluid dynamics. The book goes on to cover nanomaterial toxicity, QPSR analysis on relation of chemical structure to flash point, molecular structure and burning velocity, first principle studies of reactive chemicals, water and air reactive chemicals, and dust explosions. Chemical and process safety professionals, as well as faculty and graduate researchers, will benefit from the detailed coverage provided in this book. Provides the only comprehensive source addressing the use of multiscale modeling in the context of process safety. Bridges multiscale modeling with process safety, enabling the reader to understand mapping between problem detail and effective usage of resources. Presents an overall picture of addressing safety problems in all levels of modeling and the latest approaches to each in the field. Features worked out examples, case studies, and a question bank to aid understanding and involvement for the reader.


NBS Handbook of Physical Properties of Hydrocarbons and Chemicals 1998

Harmony Search Algorithm-Joong Hoon Kim 2015-03-08 The Harmony Search Algorithm (HSA) is one of the most well-known techniques in the field of soft computing, an important paradigm in the science and engineering community. This volume, the proceedings of the 2nd International Conference on Harmony Search Algorithm 2015 (ICSHA 2015), brings together contributions describing the latest developments in the field of soft computing, with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields. Contributed articles cover aspects of the following topics related to the Harmony Search Algorithm: analytical studies; improved, hybrid and multi-objective variants; parameter tuning; and large-scale applications. The book also contains papers discussing recent advances on the following topics: genetic algorithms; evolutionary strategies; the firefly algorithm and cuckoo search; particle swarm optimization and ant colony optimization; simulated annealing; and local search techniques. This book offers a valuable snapshot of the current status of the Harmony Search Algorithm and related techniques, and will be a useful reference for practising researchers and advanced students in computer science and engineering. Gas-Phase Synthesis of Nanoparticles-Yves Huttel 2017-05-15 The first overview of this topic begins with some historical aspects and a survey of the principles of the gas aggregation method. The second part covers modifications of this method resulting in different specialized techniques, while the third discusses the post-growth treatment that can be applied to the nanoparticles. The whole is rounded off by a review of future perspectives and the challenges facing the scientific and industrial communities. An excellent resource for anyone working with the synthesis of nanoparticles, both in academia and industry.

Encyclopedia of Chemical Processing and Design-John J. McKetta Jr 1997-11-11 "Vent Collection System, Design and Safety to Viscosity-Gravity-Contrast, Estimation" Ludwig's Applied Process Design for Chemical and Petrochemical Plants-A. Kayode Coker 2011-08-30 This complete revision of Applied Process Design for Chemical and Petrochemical Plants, Volume 1 builds upon Ernest E. Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals. This new edition includes important supplemental mathematical and related data, nomographs and charts. Also included within are improved techniques and fundamental methodologies, to guide the engineer in designing process equipment and applying chemical processes to properly designed equipment. All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application selection, and charts in readily usable form. Process engineers, designers, and operators will find more chemical petrochemical plant design data in: Volume 2, Third Edition, which covers distillation and packed towers as well as material on azeotropes and ideal/non-ideal systems. Volume 3, Third Edition, which covers heat transfer, refrigeration systems, compression surge drums, and mechanical drivers. A. Kayode Coker, is Chairman of the Chemical & Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He's both a chartered scientist and a chartered chemical engineer for more than 15 years. and an author of Fortran Programs for Chemical Process Design, Analysis and Simulation, Gulf Publishing Co., and Modeling of Chemical Kinetics and Reactor Design, Butterworth-Heinemann. Provides improved design manuals for methods and proven fundamentals of process design with related data and charts. Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995.

Industrial Hygiene Control of Airborne Chemical Hazards-William Popendorf 2006-05-15 Do you need guidelines for choosing a substitute organic solvent that is safer to use? Do you need an effective, cheap but perhaps temporary way to reduce exposures before you can convince your employer to spend money on a long-term or more reliable solution? Do you need information about local exhaust ventilation or personal protective equipment like respirators and gloves? Industrial Hygiene Control of Airborne Chemical Hazards provides the answers to these questions and more. Science-based and quantitative, the book introduces methods for controlling exposures in diverse settings, focusing squarely on airborne chemical hazards. It bridges the gap between existing knowledge of physical principles and their modern application with a wealth of recommendations, techniques, and tools accumulated by generations of IH practitioners to control chemical hazards. Provides a unique, comprehensive tool for facing the challenges of controlling chemical hazards in the workplace. Although William Popendorf has written the book at a fundamental level, he assumes the reader has some experience in science and math, as well as in manufacturing or other work settings with chemical hazards, but is inexperienced in the selection, design, implementation, or management of chemical exposure control systems. Where the book is quantitative, of course there are lots of formulae, but in general the author avoids vague notation and long derivations.

Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology-James A. Kent 2010-05-27 This substantially revised and updated classic reference offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The two volume Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in the book's new chapters.

Chemical Engineering- 2007

Modeling Phenomena of Flow and Transport in Porous Media-Jacob Bear 2018-01-25 This book presents and discusses the construction of mathematical models that describe phenomena of flow and transport in porous media as encountered in civil and environmental engineering, petroleum and agricultural engineering, as well as chemical and geothermal engineering. The phenomena of transport of extensive quantities, like mass of fluid phases, mass of chemical species dissolved in fluid phases, momentum and energy of the solid matrix and of fluid phases occupying the void space of porous medium domains are encountered in all these disciplines. The book, which can also serve as a text for courses on modeling in these disciplines, starts from first principles and focuses on the construction of well-posed mathematical models that describe all these transport phenomena.

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individual chapters. Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins.

Chemical Engineering Design-Gavin Towler 2007-11-26 Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic. --Extract from Chemical Engineering Resources review. Chemical Engineering Design is one of the best-known and widely adopted texts available for students of chemical engineering. It deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this US edition has been specifically developed for the US market. It covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, among others. Comprehensive in coverage, exhaustive in detail, it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers. In addition, the book is widely used by professions as a day-to-day reference. Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations, design and economics Strong emphasis on HS&E issues, codes and standards, including API, ASME and ISA design codes and ANSI standards 108 realistic commercial design projects from diverse industries

SFPE Handbook of Fire Protection Engineering-Morgan J. Hurley 2015-10-07 Revised and significantly expanded, the fifth edition of this classic work offers both new and substantially updated information. As the definitive reference on fire protection engineering, this book provides thorough treatment of the current best practices in fire protection engineering and performance-based fire safety. Over 130 eminent fire engineers and researchers contributed chapters to the book, representing universities and professional organizations around the world. It remains the indispensable source for reliable coverage of fire safety engineering fundamentals, fire dynamics, hazard calculations, fire risk analysis, modeling and more. With seventeen new chapters and over 1,800 figures, the this new edition contains: Step-by-step equations that explain engineering calculations Comprehensive revision of the coverage of human behavior in fire, including several new chapters on egress system design, occupant evacuation scenarios, combustion toxicity and data for human behavior analysis Revised fundamental chapters for a stronger sense of context Added chapters on fire protection system selection and design, including selection of fire safety systems, system activation and controls and CO2 extinguishing systems Recent advances in fire resistance design Addition of new chapters on industrial fire protection, including vapor clouds, effects of thermal radiation on people, BLEVEs, dust explosions and gas and vapor explosions New chapters on fire load density, curtain walls, wildland fires and vehicle tunnels Essential reference appendices on conversion factors, thermophysical property data, fuel properties and combustion data, configuration factors and piping properties "Three-volume set; not available separately"
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