

Chemical Engineering Handbook

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Chemical Engineering Handbook McGraw-Hill Professional Publishing

The Handbook for Chemical Process Research and Development focuses on developing processes for chemical and pharmaceutical industries. Forty years ago there were few process research and development activities in the pharmaceutical industry, partially due to the simplicity of the drug molecules. However, with the increasing structural complexity, especially the introduction of chiral centers into the drug molecules and strict regulations set by the EMA and FDA, process R&D has become one of the critical departments for pharmaceutical companies. This book assists with the key responsibility of process chemists to develop chemical processes for manufacturing pharmaceutical intermediates and final drug substances for clinical studies and commercial production.

A Handbook of Chemical Engineering Gordon & Breach Science Pub

Bretherick's Handbook of Reactive Chemical Hazards, Fourth Edition, has been prepared and revised to give access to a wide and up-to-date selection of documented information to research students, practicing chemists, safety officers, and others concerned with the safe handling and use of reactive chemicals. This will allow ready assessment of the likely potential for reaction hazards which may be associated with an existing or proposed chemical compound or reaction system. A secondary, longer-term purpose is to present the information in a way which will, as far as possible, bring out the causes of, and interrelationships between, apparently disconnected facts and incidents. This handbook includes all information which had become available to the author by April 1989 on the reactivity hazards of individual elements or compounds, either alone or in combination. It begins

with an introductory chapter that provides an overview of the complex subject of reactive chemical hazards, drawing attention to the underlying principles and to some practical aspects of minimizing such hazards. This is followed by two sections: Section 1 provides detailed information on the hazardous properties of individual chemicals, either alone or in combination with other compounds; the entries in Section 2 are of two distinct types. The first type of entry gives general information on the hazardous behavior of some recognizably discrete classes or groups of the 4,600 or so individual compounds for which details are given in Section 1. The second type of entry concerns reactive hazard topics, techniques, or incidents which have a common theme or pattern of behavior involving compounds of several different groups, so that no common structural feature exists for the compounds involved.

Albright's Chemical Engineering Handbook Elsevier

Written by an engineer for engineers, this book is both training manual and on-going reference, bringing together all the different facets of the complex processes that must be in place to minimize the risk to people, plant and the environment from fires, explosions, vapour releases and oil spills. Fully compliant with international regulatory requirements, relatively compact but comprehensive in its coverage, engineers, safety professionals and concerned company management will buy this book to capitalize on the author's life-long expertise. This is the only book focusing specifically on oil and gas and related chemical facilities. This new edition includes updates on management practices, lessons learned from recent incidents, and new material on chemical processes, hazards and risk reviews (e.g. CHAZOP). Latest technology on fireproofing, fire and gas detection systems and applications is also covered. An introductory chapter on the philosophy of protection principles along with fundamental background material on the properties of the chemicals concerned and their behaviours under industrial conditions, combined with a detailed section on modern risk analysis techniques makes this book essential reading for students and professionals following Industrial Safety, Chemical Process Safety and Fire Protection Engineering courses. A practical, results-oriented manual for practicing engineers, bringing protection principles and chemistry together with modern risk analysis techniques Specific focus on oil and gas and related chemical facilities, making it comprehensive and compact Includes the latest best practice guidance, as well as lessons learned from recent incidents

Chemical Engineers' handbook. Prepared by a Staff of Specialists McGraw Hill Professional

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engineering-from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineering Handbook features: Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols • Physical and Chemical Data • Mathematics • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics Reaction Kinetics • Process Control • Process Economics • Transport and Storage of Fluids • Heat Transfer Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Size Reduction and Size Enlargement • Handling of Bulk Solids and Packaging of Solids and Liquids • Alternative Separation Processes • And Many Other Topics!

Green Chemical Engineering CRC Press

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Handbook of Chemical and Biological Sensors Albright's Chemical Engineering Handbook

Albright's Chemical Engineering Handbook CRC Press

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Chemical Engineers Handbook CRC Press

A compilation of the calculation procedures needed every day on the job by chemical engineers. Tables of Contents: Physical and Chemical Properties; Stoichiometry; Phase Equilibrium; Chemical-Reaction Equilibrium; Reaction Kinetics and Reactor Design; Flow of Fluids and Solids; Heat Transfer; Distillation; Extraction and Leaching; Crystallization; Filtration; Liquid Agitation; Size Reduction; Drying; Evaporation; Environmental Engineering in the Plant. Illustrations. Index.

Fermentation and Biochemical Engineering Handbook, 2nd Ed. Willford Press

Now in its eighth edition, Perry's Chemical Engineers' Handbook offers unrivaled, up-to-date coverage of all aspects of chemical engineering. For the first time, individual sections are available for purchase. Now you can receive only the content you need for a fraction of the price of the entire volume. Streamline your research, pinpoint specialized information, and save money by ordering single sections of this definitive chemical engineering reference today. First published in 1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineers' Handbook features: *Comprehensive tables and charts for unit conversion *A greatly expanded section on physical and chemical data *New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories

Handbook of Chemical Vapor Deposition CRC Press

Green chemistry and chemical engineering belong together and this twelfth volume in the successful Handbook of Green Chemistry series represents the perfect one-stop reference on the topic. Written by an international team of specialists with each section edited by international leading experts, this book provides first-hand insights into the field, covering chemical engineering process design, innovations in unit operations and manufacturing, biorefining and much more besides. An indispensable source for every chemical engineer in industry and academia.

The Metabolic Pathway Engineering Handbook CRC Press

The branch of engineering which deals with producing, using, designing, transforming and transporting energy and materials is known as chemical engineering. It utilizes principles of chemistry, physics, biology, economics and mathematics. Some of the key concepts within this field are process design and analysis, transport phenomena, and plant design and construction. Process design deals with defining the type and size of equipment, and the materials of construction. Plant design and construction involves creating plans, specifying and providing economic analyses for plant modifications, pilot plants and new plants. Chemical engineering is primarily applied in the transformation of raw materials into usable products. This book covers in detail some existent theories and innovative concepts revolving around chemical engineering. It presents this complex subject in the most comprehensible and easy to understand language. Those in search of information to further their knowledge will be greatly assisted by this book.

Perry's chemical engineering handbook McGraw Hill Professional

Taking greater advantage of powerful computing capabilities over the last several years, the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering. Albright's Chemical Engineering Handbook represents a reliable source of updated methods, applications, and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations. Well-rounded, concise, and practical by design, this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties. Each chapter provides a clear review of basic information, case examples, and references to additional, more in-depth information. They explain essential principles, calculations, and issues relating to topics including reaction engineering, process control and design, waste disposal, and electrochemical and biochemical engineering. The final chapters cover aspects of patents and intellectual property, practical communication, and ethical considerations that are most relevant to engineers. From fundamentals to plant operations, Albright's Chemical Engineering Handbook offers a thorough, yet succinct guide to day-to-day methods and calculations used in chemical engineering applications. This handbook will serve the needs of practicing professionals as well as students preparing to enter the field.

PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 6 FLUID&PARTICLE DYNAMICS (POD) Amer Inst of Chemical Engineers

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PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 18 LIQUID-SOLID OPER&EQU (POD) CRC Press

This first volume of the Metabolic Pathway Engineering Handbook provides an overview of metabolic pathway engineering with a look towards the future. It discusses cellular metabolism, including transport processes inside the cell and energy generating reactions, as well as rare metabolic conversions. This volume also explores balances and reaction

Handbook of Chemical Engineering McGraw Hill Professional

The Handbook of Carbohydrate Engineering provides an overview of the basic science, theory, methods, and applications of this broad, interdisciplinary field. The text provides background information along with practical knowledge for current and future research methodologies used in the characterization and synthesis of various carbohydrates. This multidisciplinary perspective involves aspects of basic biology, synthetic chemistry, enzymology, complex instrumentation, and sophisticated modeling. The book presents the fundamentals of carbohydrate engineering, addressing concepts in structure, biosynthesis, and biological functions for a variety of carbohydrates with a particular emphasis on mammalian glycoproteins and their N-linked oligosaccharides, glycolipids, sialic acid, as well as polysaccharides from both eukaryotes and bacteria. It describes glycosylation processes found in nature and surveys methods to manipulate these metabolic systems in living cells both for the improved production of carbohydrates and to give these molecules novel properties. Subsequent sections discuss the various methods of purification, synthesis, modification, and analysis used to create and manipulate carbohydrates in the laboratory; these approaches include chemical-enzymatic synthesis, small-molecule cell-based strategies, as well as complete chemical synthesis. The Handbook of Carbohydrate Engineering also focuses on practical applications for carbohydrates. It emphasizes methods to characterize glycosylation pathways and expounds upon the role of carbohydrates in health and disease, a significant - and rapidly growing - area of research. World-renowned experts discuss biomedical applications, including the development of vaccines, therapeutics, glycomimetics, antibody engineering, drug delivery, tissue engineering and organ regeneration, and diagnostic agents. Several chapters also cover important applications in agriculture, industry, food technology, and environmental remediation.

Handbook of Fire and Explosion Protection Engineering Principles Elsevier

Chemical engineering has a wide range of applications. It facilitates all fields of industry. This book is

an attempt to incorporate all the varying applications and recent trends in this discipline. The researches in this book will provide insights to the readers about all the research models and developmental areas in chemical engineering.

Chemical Engineers' Handbook McGraw Hill Professional

Get Cutting-Edge Coverage of All Chemical Engineering Topics— from Fundamentals to the Latest Computer Applications First published in 1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineering Handbook features: Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide - Conversion Factors and Mathematical Symbols • Physical and Chemical Data • Mathematics • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics Reaction Kinetics • Process Control • Process Economics • Transport and Storage of Fluids • Heat Transfer Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Size Reduction and Size Enlargement • Handling of Bulk Solids and Packaging of Solids and Liquids • Alternative Separation Processes • And Many Other Topics!

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Injection Molding Handbook William Andrew

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REVIEW OF CHEMICAL ENGINEERING HANDBOOK

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