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Handbook of Industrial Chemistry and Biotechnology

Thirteenth Edition

 Springer

Handbook Of Industrial Chemistry And Biotechnology

Abdullah Al Mamun, Jonathan Y. Chen



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from those who are directly involved in the chemical industry to others involved in related fields such as manufacturing process supervision and process development. It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics. Incorporating the most relevant and current technologies and information available in the field, the handbook covers such overarching topics as green engineering, process safety, utilization of renewable resources, fossil fuels, nuclear power, and many of the major individual components of the chemical process industry. The Editor's continued commitment to providing readers with only the most pertinent and contemporary information in the well-established field of Industrial Chemistry is particularly apparent in this eleventh edition. Every chapter in this edition has been thoroughly reviewed, analyzed, and updated by top experts in the field to reflect the changing nature of the industry. Extensive discussion of new material can be found on the following topics: Green Engineering and Chemistry, Practical Catalysis, Biomass Utilization, Nanotechnology fundamentals, Biotechnology. This handbook provides extensive information on plastics, rubber, adhesives, textile fibers, pharmaceutical chemistry, synthetic organic chemicals, soaps, and detergents, as well as various other major classes of industrial chemistry. There is detailed coverage of coal utilization, technology, dyes, and dye intermediates, chlor-alkali, and heavy chemicals, paints and pigments, chemical explosives, propellants, petroleum and petrochemicals, natural gas, industrial gases, synthetic nitrogen products, fats and oils, sulfur and sulfuric acid, phosphorous and phosphates, wood products, and sweeteners. Broad in scope and unparalleled in quality, the eleventh edition of Kent and Riegel's *Handbook of Industrial Chemistry and Biotechnology* is an essential desk reference for all professionals in the field of Industrial Chemistry. Encompassing a spectrum of frequently discussed topics, James A. Kent has eloquently compiled the most accessible and reliable reference available to date. About the Editor: James A. Kent has extensive experiences as a chemical engineer and engineering educator. He most recently served as Chrysler Professor and Dean of Engineering and Science at the University of Detroit Mercy, and prior to that he was Professor and Dean of Engineering at Michigan Technological University and Professor of Chemical Engineering and Associate Dean for Research and Graduate Studies at West Virginia University. Dr. Kent's industry experience included assignments as Research Engineer and Research Group Leader at Dow Chemical Company and Monsanto. He also served as editor of the sixth through ninth editions of the Handbook. Dr. Kent is a long-time member of AIChE.

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and Riegel's handbook of industrial chemistry and biotechnology. 2 (2007) James A. Kent, 2007 **Handbook of Industrial Chemistry and Biotechnology** James A. Kent, Tilak V. Bommaraju, Scott D. Barnicki, 2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably **Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology** James A. Kent, 2010-05-27 Substantially revising and updating the classic reference in the field this handbook 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 Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors 30 of the book's 38 chapters but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in new chapters on Green Engineering and Chemistry Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Other new chapters include Nanotechnology Environmental Considerations in Facilities Planning Biomass Utilization Industrial Microbial Fermentation Enzymes and Biocatalysis the Nuclear Industry and History of the Chemical Industry **Riegel's Handbook of Industrial Chemistry** James A. Kent, 2012-12-06 The aim of this book is to present in a single volume an up to date account of the chemistry and chemical engineering which underlie the major areas of the chemical process industry This most recent edition includes several new chapters which comprise important threads in the industry's total fabric These new chapters cover waste minimization safety considerations in chemical plant design and operation emergency response planning and statistical applications in quality control and experimental planning Together with the chapters on chemical industry economics and wastewater treatment they provide a unifying base on which the reader can most effectively apply the information provided in the chapters which describe the various areas of the chemical process industries The ninth edition of this established reference work contains the contributions of some fifty experts from industry government and academe I have been humbled by the breadth and depth of their knowledge and expertise and by

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metabolic engineering for strain improvement the authors also impart topical information on computational tools safety aspects and industrial scale production Following an introduction to general concepts historical developments and future technologies the text goes on to cover multi purpose bacterial cell factories including those organisms that exploit anaerobic biosynthetic power Further chapters deal with microbes used for the production of high value natural compounds and those obtained from alternative raw material sources concluding with eukaryotic workhorses

Industrial Organic Chemicals

Harold A. Wittcoff, Bryan G. Reuben, Jeffery S. Plotkin, 2012-12-10 An essential introduction to the organic chemicals industry in the context of globalization advances in technology and environmental concerns Providing 95 percent of the 500 billion pounds of organic chemicals produced in the world the petroleum and natural gas industries are responsible for products that ensure our present quality of life Products as diverse as gasoline plastics detergents fibers pesticides tires lipstick shampoo and sunscreens are based on seven raw materials derived from petroleum and natural gas In an updated and expanded Third Edition Industrial Organic Chemicals examines why each of these chemical building blocks ethylene propylene C4 olefins butenes and butadiene benzene toluene the xylenes and methane is preferred over another in the context of an environmental issue or manufacturing process as well as their individual chemistry derivatives method of manufacture uses and economic significance The new edition details the seismic shifts in the world's chemistry industry away from the United States Western Europe and Japan transforming the Middle East and Asia Pacific region especially China into major players The book also details The impact of globalization on the patterns of worldwide transportation of chemicals including methods of shipping chemicals The technological advances in the area of polymerization and catalysis including catalyst design and single site catalysts Chemicals for electronics with much new material on conducting polymers photovoltaic cells and related materials The discovery of vast reserves of shale gas and shale oil altering long term predictions of resource depletion in the United States and other countries Commercial and market aspects of the chemical industry with coverage of emerging new companies such as INEOS Formosa Plastics LyondellBasell and SABIC With expanded coverage on the vital role of green chemistry renewables chemicals and fuels on issues of sustainability and climate change Industrial Organic Chemicals offers an unparalleled examination of what is at the heart of this multi billion dollar industry how globalization has transformed it and its ever growing role in preserving the Earth and its resources

Industrial Chemical Separation Timothy C. Frank, Bruce S. Holden, 2023-08-07 A fresh new treatment written by industry insiders this work gives readers a remarkably clear view into the world of chemical separation The authors review distillation extraction adsorption crystallization and the use of membranes providing historical perspective explaining key features and offering insights from personal experience The book is for engineers and chemists with current or future responsibility for chemical separation on a commercial scale in its design operation or improvement or for anyone wanting to learn more about chemical separation from an industrial point of view The result is a compelling survey of popular

technologies and the profession one that brings the art and craft of chemical separation to life Ever wonder how popular separation technologies came about how a particular process functions or how mass transfer units differ from theoretical stages Or perhaps you want some pointers on how to begin solving a separation problem You will find clear explanations and valuable insights into these and other aspects of industrial practice in this refreshing new survey Industrial Catalysis Jens Hagen, 2015-09-24 Now in its 3rd Edition Industrial Catalysis offers all relevant information on catalytic processes in industry including many recent examples Perfectly suited for self study it is the ideal companion for scientists who want to get into the field or refresh existing knowledge The updated edition covers the full range of industrial aspects from catalyst development and testing to process examples and catalyst recycling The book is characterized by its practical relevance expressed by a selection of over 40 examples of catalytic processes in industry In addition new chapters on catalytic processes with renewable materials and polymerization catalysis have been included Existing chapters have been carefully revised and supported by new subchapters for example on metathesis reactions refinery processes petrochemistry and new reactor concepts I found the book accessible readable and interesting both as a refresher and as an introduction to new topics and a convenient first reference on current industrial catalytic practice and processes Excerpt from a book review for the second edition by P C H Mitchell Applied Organometallic Chemistry 2007

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