

Second Edition

# HANDBOOK OF PETROCHEMICALS PRODUCTION PROCESSES



ROBERT A. MEYERS

# **Handbook Of Petrochemicals Production Processes**

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## **Handbook Of Petrochemicals Production Processes:**

**Handbook of Petrochemicals Production Processes** Robert A. Meyers, 2005 This unique reference is the only one stop source for details on licensed petrochemical processes for the major organic chemicals a 200 billion annual market With chapters prepared by some of the largest petrochemical and petroleum companies in the world Handbook of Petrochemicals Production Processes provides in depth process detail for commercial evaluation and covers plastics and polymers such as ethylene and polyethylene propylene ethylbenzene styrene and polystyrenes vinyl chloride and polyvinyl chloride and many others This handbook answers questions on yields unit operations chemical and physical values economics and much more

**Handbook of Petrochemicals Production Processes, Second Edition**, 2019 **Handbook of Petrochemicals Production, Second Edition** Robert A. Meyers, 2018-10-06 A complete guide to petrochemicals production processes fully revised to cover the latest advances Get all the information you need on petrochemical processes for major organic chemicals inside this industry standard one stop reference Prepared by leading petrochemical licensing firms Handbook of Petrochemicals Production Processes Second Edition clearly explains the powerful techniques used to create the most economically important chemicals in the world The book offers cutting edge production methods along with detailed product properties You will discover how to effectively evaluate licensable processes for new production through the comparison of technologies environmental factors and economics Coverage includes General process descriptions feed definitions product yields and simplified flow diagrams Process chemistries and thermodynamics Commercial process perspectives including plant locations and long term plans Process details with flow diagrams and mass and energy balances for major process variations Feeds and details on unique and key equipment Brand new details on gas to petrochemical conversion biomass to petrochemical conversion and bisphenol A BPA [Handbook of Petrochemical Processes](#) James G. Speight, 2019-06-13 The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers The purpose of this book is not only to provide a follow on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process Following from the introductory chapters this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Provides readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum based hydrocarbons into the chemicals that form the basis of the multi billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and

intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry including an overview of the coal chemicals industry **Handbook of Petrochemicals and Processes** G. Margaret Wells, 2018-10-26 First published in 1991 this volume responds to the major changes in the petrochemical industry over the previous decade due to increases in raw material costs improvements in process efficiency and the increasing importance now being placed on environmental issues The Handbook of Petrochemicals and Processes provides comprehensive up to date information on 76 petrochemicals and their processes giving details of the chemical reactions involved in transforming raw materials such as olefins and aromatics into chemicals plastics and synthetic fibres The competing processes for each product including the latest technical developments are described with their feedstock requirements catalysts and conversion rates compared Many of the processes are illustrated with clear flow diagrams The book is easy to use with the products arranged in alphabetical order Within each chapter on the individual products there are details of the physical characteristics and properties grades available handling transportation health and safety aspects and lists of the major manufacturers and licensors The Handbook of Petrochemicals and Processes gathers together in one volume all the commonly sought chemical information It will prove an invaluable source of reference for industrial chemists chemical engineers and industry professionals as well as librarians and information centres concerned with the petrochemical industry

**Handbook of Industrial Hydrocarbon Processes** James G. Speight, 2019-11-21 Handbook of Industrial Hydrocarbon Processes Second Edition provides an analysis of the process steps required to produce hydrocarbons from various raw materials and how the choice of a process depends not only on technology but also on external effects such as social and economic developments political factors affecting the availability of raw materials and environmental legislation This book qualitatively examines chemical processes and plant design by showing the factors determining process structures including the underlying chemistry feedstock product specifications and reactor design The book also compares the processes for different products based on raw materials and manufacturing processes based on their respective applications With the addition of useful flowcharts that present an overview of the chemical processes process design and equipment this book is a valuable resource to industry professionals on how to understand how hydrocarbons are produced from different raw materials and how to develop an instinct for the right process development strategy Provides a qualitative analysis of chemical processes and plant design by showing the factors determining process structures Presents chemical processes in an organized easy to read and understandable manner with the use of useful flowcharts and concise descriptions Includes updates on changes in existing technological and chemical processes as well as possible future improvements or changes to other more economic or more readily available feedstocks Industrial Arene Chemistry Jacques Mortier, 2023-03-17 Industrial Arene Chemistry Explore the wide array of uses for aromatic hydrocarbons in this comprehensive reference Aromatics are a class of compounds normally but not exclusively organic which tend to be produced as by products of various

industrial processes Their importance as petrochemical materials in themselves along with the range of inter relations between different aromatic chemicals creates a complex and opportunity filled market for aromatics Industrial Arene Chemistry provides a thorough look at the conventional techniques required to use and produce these aromatic hydrocarbons Beginning with an overview of the global aromatic market including but not limited to manufacturers markets of BTX and downstream functional aromatics aromatics derived from renewable sources and economic forecasts the book will also explore the impact shifting environmental factors will have on the future of aromatic chemistry The text further explores BTX production processes differentiated according to the raw materials used Importantly this will establish the importance and growth of the biobased chemical industry Industrial Arene Chemistry readers will also find Case studies that describe major elements of specific technologies prototyped by contributors companies as part of ongoing market development efforts Process chapters that include summaries of the conventional techniques and a more detailed discussion of recent high impact studies Recent advances in conventional aromatic reactions including alkylation acylation and carboxylation hydrogenation reduction oxidation nitration amination sulfonation and halogenation Industrial Arene Chemistry is a useful reference for chemists and chemical engineers who work with aromatics

**Introduction to Industrial Polyethylene** Dennis B. Malpass, 2010-06-28 Demystifies the largest volume manmade synthetic polymer by distilling the fundamentals of what polyethylene is how it is made and processed and what happens to it after its useful life is over Endorsement for Introduction to Industrial Polyethylene I found this to be a straightforward easy to read and useful introductory text on polyethylene which will be helpful for chemists engineers and students who need to learn more about this complex topic The author is a senior polyethylene specialist and I believe we can all benefit from his distillation of knowledge and insight to quickly grasp the key learnings R E King III Ciba Corporation part of the BASF group Jargon used in industrial polyethylene technology can often be bewildering to newcomers Introduction to Industrial Polyethylene educates readers on terminology commonly used in the industry and demystifies the chemistry of catalysts and cocatalysts employed in the manufacture of polyethylene This concise primer reviews the history of polyethylene and introduces basic features and nomenclatures for this versatile polymer Catalysts and cocatalysts crucial to the production of polyethylene are discussed in the first few chapters Latter chapters provide an introduction to the processes used to manufacture polyethylene and discuss matters related to downstream applications of polyethylene such as rheology additives environmental issues etc Providing industrial chemists and engineers a valuable reference tool that covers fundamental features of polyethylene technology Introduction to Industrial Polyethylene Identifies the fundamental types of polyethylene and how they differ Lists markets key fabrication methods and the major producers of polyethylene Provides biodegradable alternatives to polyethylene Describes the processes used in the manufacture of polyethylene Includes a thorough glossary providing definitions of acronyms and abbreviations and also defines terms commonly used in discussions of production and properties of polyethylene Concludes with the future of

industrial polyethylene     Handbook of Gasification Technology James G. Speight, 2020-04-14 Gasification is one of the most important advancements that has ever occurred in energy production Using this technology for example coal can be gasified into a product that has roughly half the carbon footprint of coal On a large scale gasification could be considered a revolutionary development not only prolonging the life of carbon based fuels but making them greener and cleaner As long as much of the world still depends on fossil fuels gasification will be an environmentally friendlier choice for energy production But gasification is not just used for fossil fuels Waste products that would normally be dumped into landfills or otherwise disposed of can be converted into energy through the process of gasification The same is true of biofeedstocks and other types of feedstocks thus making another argument for the widespread use of gasification The Handbook of Gasification Technology covers all aspects of the gasification in a one stop shop from the basic science of gasification and why it is needed to the energy sources processes chemicals materials and machinery used in the technology Whether a veteran engineer or scientist using it as a reference or a professor using it as a textbook this outstanding new volume is a must have for any library     Modern Petrochemical Technology Santi Kulprathipanja, James E. Rekoske, Daniel Wei, Robert V. Slone, Trung Pham, Chunging Liu, 2021-03-30 Modern Petrochemical Technology A text that explores the essence of petrochemicals and petrochemical technology Modern Petrochemical Technology Methods Manufacturing and Applications is a comprehensive resource that provides an overview of the uses for common petrochemical building blocks a review of the marketplaces and offers a survey of the technology used to make the key petrochemical building blocks The book contains both critical information the technologies used to produce petrochemicals how the various petrochemicals are applied in industry and provides illustrative examples and problems designed to reinforce the learning about the basic science engineering and use of petrochemicals The book explores three separate petrochemical building block olefin complexes aromatic complexes and synthesis gas complexes and examines the interconnected nature of these building blocks The authors also include information on the olefins productions using steam cracking paraffin dehydrogenation and methanol to olefins technologies and describes various methods commercial processes to produce aromatics such as benzene toluene and xylene and much more This important book Offers a guide to the critical information on petrochemical producing technologies Includes material on various petrochemicals from the industrial point of view Explores the separation processes membrane technology absorption technology liquid liquid extraction and more Contains material from a team of noted experts Provides a survey of examples of commercialization applications of petrochemicals Written for chemical engineers chemists in industry membrane scientists and process engineers Modern Petrochemical Technology provides an overview of markets and uses for common petrochemical building blocks as well as includes a survey of the technology used to make the key petrochemical building blocks     Handbook of Industrial Chemistry and Biotechnology James A. Kent, 2013-01-13 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 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 chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security 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 Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in 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 Converting Power into Chemicals and Fuels Martin Bajus,2023-07-17 CONVERTING POWER INTO CHEMICALS AND FUELS Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low carbon alternatives Power into Chemicals and Fuels stresses the versatility of hydrogen as an enabler of the renewable energy system an energy vector that can be transported and stored and a fuel for the transportation sector heating of buildings and providing heat and feedstock to industry It can reduce both carbon and local emissions increase energy security and strengthen the economy as well as support the deployment of renewable power generation such as wind solar nuclear and hydro With a focus on power to X technologies this book discusses the production of basic petrochemicals in such a way as to minimize the carbon footprint and develop procedures that save energy or use energy from renewable sources Various different power to X system configurations are introduced with discussions on their performance environmental impact and cost Technologies for sustainable hydrogen production are covered focusing on water electrolysis using renewable energy as well as consideration of the remaining challenges for large scale production and integration with other technologies Power into Chemicals and Fuels readers will also find Discussion of recent advances in power into x technologies for the production of ethylene propylene formic acid and more Coverage of every stage in the power into x process from power generation to upgrading the final product Thermodynamic technoeconomic and life cycle assessment analyses of each major process Power into Chemicals and Fuels is a valuable resource for scientists and engineers working in the petrochemicals and hydrocarbons industries as well as for all industry professionals in these and related fields *Leveraging Synergies Between Refining and Petrochemical Processes* Eberhard Lucke,Edgar Amaro Ronces,2020-12-15 Leveraging Synergies Between Refining and Petrochemical Processes provides a detailed description of the interfaces and connections between crude oil refining and

petrochemicals It offers a view of global and regional markets and economic opportunities for synergies between these sectors Features Shows a global and regional market outlook for crude oil refining and petrochemical sectors Explores economic and market opportunities for taking advantage of the synergies between both sectors Analyzes the technical challenges and opportunities that come with these synergies Gives an outlook and prediction of what companies will be able to achieve in the mid term future Provides introductory and explanatory material as well as in depth insight into future technology and market developments This book serves as a reference for professionals in chemical engineering oil and gas engineering and industrial chemistry It aims to help engineers and industry professionals understand the challenges and the potential benefits of developing expansion or optimization projects that may bridge the gap between refining and

petrochemicals Advances in Catalysis ,2014-11-24 Advances in Catalysis fills the gap between the journal papers and the textbooks across the diverse areas of catalysis research For more than 60 years Advances in Catalysis has been dedicated to recording progress in the field of catalysis and providing the scientific community with comprehensive and authoritative reviews This series is invaluable to chemical engineers and chemists working in the field of catalysis in academia or industry Authoritative reviews written by experts in the field Topics selected to reflect progress of the field Insightful and critical articles fully edited to suit various backgrounds

Petrochemistry Martin Bajus,2020-01-03 A comprehensive textbook on petrochemical conversion processes for petroleum and natural gas fractions as produced by refinery operations This innovative textbook provides essential links between the chemical sciences and chemical technology between petrochemistry and hydrocarbon technology The book brings alive key concepts forming the basis of chemical technology and presents a solid background for innovative process development In all chapters the processes described are accompanied by simplified flow schemes encouraging students to think in terms of conceptual process designs Petrochemistry Petrochemical Processing Hydrocarbon Technology and Green Engineering introduces students to a variety of topics related to the petrochemical industry hydrocarbon processing fossil fuel resources as well as fuels and chemicals conversion The first chapter covers the fundamentals and principals for designing several of the processes in the book including discussions on thermodynamics chemical kinetics reactor calculations and industrial catalysts The following chapters address recent advances in hydrocarbon technology energy technology and sources of hydrocarbons The book then goes on to discuss the petrochemical industry based on four basic pillars all derived from petroleum and natural gas Production of lower alkenes other sources of lower alkenes petrochemicals from C2 C3 alkenes Production of BTX aromatics chemicals from BTX aromatics C1 technology Diversification of petrochemicals The growing importance of sustainable technology process intensification and addressing greenhouse gas emissions is reflected throughout the book Written for advanced students working in the areas of petrochemistry hydrocarbon technology natural gas energy materials and technologies alternative fuels and recycling technologies the book is also a valuable reference for industrial practitioners in the oil and gas industry Liquid Phase



Aerobic Oxidation Catalysis Shannon S. Stahl, Paul L. Alsters, 2016-07-13 The first book to place recent academic developments within the context of real life industrial applications this is a timely overview of the field of aerobic oxidation reactions in the liquid phase that also illuminates the key challenges that lie ahead As such it covers both homogeneous as well as heterogeneous chemocatalysis and biocatalysis along with examples taken from various industries bulk chemicals and monomers specialty chemicals flavors and fragrances vitamins and pharmaceuticals One chapter is devoted to reactor concepts and engineering aspects of these methods while another deals with the relevance of aerobic oxidation catalysis for the conversion of renewable feedstock With chapters written by a team of academic and industrial researchers this is a valuable reference for synthetic and catalytic chemists at universities as well as those working in the pharmaceutical and fine chemical industries seeking a better understanding of these reactions and how to design large scale processes based on this technology

*Adhesives for Wood and Lignocellulosic Materials* R. N. Kumar, A. Pizzi, 2019-07-17 A unique and ground breaking book from two leading specialists on adhesion and adhesives for wood and lignocellulosic materials The book is a comprehensive treatment covering a wide range of subjects uniquely available in a single source for the first time A material science approach has been adopted in dealing with wood adhesion and adhesives The approach of the authors is to bring out hierarchical cellular and porous characteristics of wood with polymeric cell wall structure along with the associated non cell wall extractives which greatly influence the interaction of wood substrate with polymeric adhesives in a very unique manner not existent in the case of other adherends Environmental aspects in particular formaldehyde emission from adhesive bonded wood products has been included A significant feature of the book is the inclusion of polymeric matrix materials for wood polymer composites

**Propylene Production Cost Analysis - Overview - Propylene AA01** Intratec, 2016-03-01 This is a free full sample report offered by Intratec Solutions to demonstrate in advance the type of information you will get when you buy one of our reports offering the same standard and structure types of graphs tables and descriptions that you will find in all of our Cost Analysis Overview reports This report presents alternatives for producing PG Propylene from different feedstocks and a cost comparison of these alternatives across different countries More specifically the report compares the costs of PG Propylene production through the following pathways Pathway 1 Propylene Production from Light Naphtha Pathway 2 Propylene Production from Ethylene and Butenes Pathway 3 Propylene Production from Propane with Hydrogen Generation Pathway 1 corresponds to a steam cracker for Propylene production ethylene as co product In Pathway 2 Propylene is produced via metathesis reaction of ethylene with 2 butene present in raffinate 2 feedstock In Pathway 3 propane is dehydrogenated to Propylene with hydrogen generated being valued as fuel The analysis presented in this report includes A comparison of the economic potential of the pathways listed above in several countries comprising Comparative analysis of capital costs Comparative analysis of production costs Comparison between product price and raw materials costs of each pathway An overview of each production pathway including Raw material s consumption figures and product s

generated Related technology licensors and block flow diagram of representative industrial processes Keywords Propene Ethene Steam Cracking PDH Propane Dehydrogenation Olefins Conversion Technology OCT      **Heterogeneous Catalytic Materials** Guido Busca, 2014-05-23 Heterogeneous Catalytic Materials discusses experimental methods and the latest developments in three areas of research heterogeneous catalysis surface chemistry and the chemistry of catalysts Catalytic materials are those solids that allow the chemical reaction to occur efficiently and cost effectively This book provides you with all necessary information to synthesize characterize and relate the properties of a catalyst to its behavior enabling you to select the appropriate catalyst for the process and reactor system Oxides used both as catalysts and as supports for catalysts mixed and complex oxides and salts halides sulfides carbides and unsupported and supported metals are all considered The book encompasses applications in industrial chemistry refinery petrochemistry biomass conversion energy production and environmental protection technologies Provides a systematic and clear approach of the synthesis solid state chemistry and surface chemistry of all solid state catalysts Covers widely used instrumental techniques for catalyst characterization such as x ray photoelectron spectroscopy scanning electron microscopy and more Includes characterization methods and lists all catalytic behavior of the solid state catalysts Discusses new developments in nanocatalysts and their advantages over conventional catalysts      *Proceedings of the 1st Annual Gas Processing Symposium* Hassan E. Alfadala, G.V. Rex Reklaitis, Mahmoud M. El-Halwagi, 2008-11-26 As the cleanest source of fossil energy with the most advantageous CO<sub>2</sub> footprint natural gas continues to increase its share in the global energy market This book provides state of the art contributions in the area of gas processing Special emphasis is given to Liquefied Natural Gas LNG the book also covers the following gas processing applications in parallel sessions Natural Gas processing and treatment Gas To Power and water Gas To Liquid GTL Gas To Petrochemicals including olefins ammonia and methanol Provides a state of the art review of gas processing technologies Covers design operating tools and methodologies Includes case studies and practical applications

The book delves into Handbook Of Petrochemicals Production Processes. Handbook Of Petrochemicals Production Processes is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Handbook Of Petrochemicals Production Processes, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, the author will draw a conclusion about Handbook Of Petrochemicals Production Processes. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Handbook Of Petrochemicals Production Processes.

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