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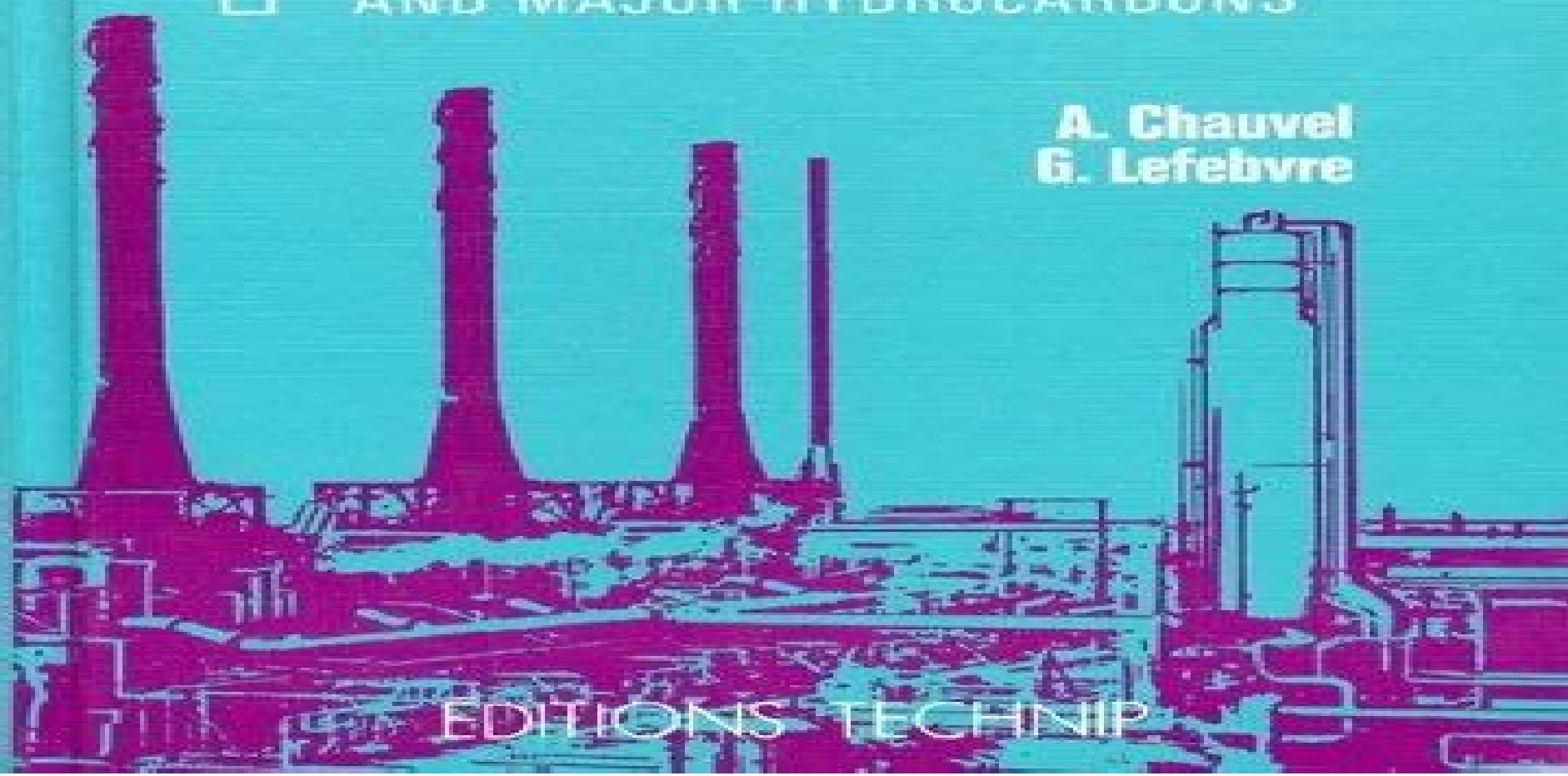
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Petrochemical Processes Volume 1 Synthesis Gas Derivatives And Major Hydrocarbons

Julia Schneider



Petrochemical Processes Volume 1 Synthesis Gas Derivatives And Major Hydrocarbons:

Petrochemical Processes.... Alain Chauvel, Gilles Lefebvre, 2001 Contents 1 Hydrogen synthesis gases and their derivatives 2 Sources of olefinic and aromatic hydrocarbons 3 The treatment of olefinic C4 and C5 cuts 4 The treatment of aromatic gasolines 5 Acetylene 6 Monomers for the synthesis of elastomers Bibliography Index **Handbook of Petroleum Processing** David S. J. Jones, Peter R. Pujadó, 2006-01-11 This handbook describes and discusses the features that make up the petroleum refining industry It begins with a description of the crude oils and their nature and continues with the saleable products from the refining processes with a review of the environmental impact There is a complete overview of the processes that make up the refinery with a brief history of those processes It also describes design technique operation and in the case of catalytic units the chemistry of the reaction routes These discussions are supported by calculation procedures and examples sufficient to enable input to modern computer simulation packages *Petroleum Refining. Vol. 3 Conversion Processes* Pierre Leprince, 2001-01-01 This volume describes the characteristics of processes used in petroleum refining upgrading light fractions reforming and isomerization converting distillates catalytic cracking hydrocracking and associated equipment converting residues visbreaking coking hydroconversion and reducing air and water pollution white product sweetening acid gas stack gas and waste water treatment This book is available in French Under the title le raffinage du p trole Tome 3 Proc d s de transformation Contents 1 Introduction 2 Basic principles governing chemical changes 3 Industrial catalysts 4 Catalytic reforming 5 Catalytic cracking 6 Isomerization of light paraffins 7 Aliphatic alkylation 8 Olefin etherification 9 Oligomerization 10 Hydrocracking 11 Visbreaking of residues 12 Coking 13 Residue hydroconversion 14 Hydrogen production 15 White products refining by sweetening 16 Hydrotreating 17 Acid gas treatment 18 Desulfurization of stack gases 19 Water treatment References Index **Manual of Process Economic Evaluation** Alain Chauvel, Gilles Fournier, Claude Raimbault, 2003 This volume will enable the reader to successfully undertake pre project evaluations especially in the areas of refining and petrochemistry It encompasses all the essential steps market analysis comparative studies of technical and economic issues sensitivity studies sizing and costing of the equipment required for an industrial scale plant estimation of capital spending calculation of costs and sales prices etc The first edition of this manual proved to be a very valuable teaching tool for universities and advanced engineering and business schools both in France and abroad It is essential for the rapid evaluation of the cost and profitability of proposed plants and of those already in operation It has been widely used by engineers consulting firms and corporate research and development departments Its status as the only current publication that covers all the steps involved in the economic evaluation of projects will render it particularly valuable to its users It will quickly become indispensable to everyone whose job it is to evaluate the economic impact of the development cancellation or reorientation of a project Contents 1 Market analysis 2 The elements of economic calculation 3 The determination of battery limits investments Appendix 1 Functional modules method FMM Appendix 2 PrE estimate method

Bibliography Index The Hydrocarbon Chemistry of FCC Naphtha Formation Herman J. Lovink, Lloyd A. Pine, 1990

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

Petroleum Refining. Vol. 4 Materials and Equipment Pierre Trambouze, 2000-10-02 This five volume series covers the entire range of technologies used in the petroleum refining industry The books are intended for students and for the engineers and technicians who operate in refineries This volume is devoted to the main equipment used in a refinery or a petrochemical complex classified by technology The basic principles for design and sizing are presented for each type of equipment The details of practical implementation are also discussed with a view to maximum efficiency Equipment selection criteria are provided for specific applications Lastly emphasis is placed on the major trends in equipment development Contents I Separation technologies 1 Gas liquid contactors for distillation plate columns 2 Gas liquid contactors for distillation packed columns 3 Solvent extraction equipment 4 Techniques for physical separation of phases II Heat transfer technologies 5 Process furnaces 6 Heat exchangers III Reaction technologies 7 Chemical reactor technology IV Mechanical operations 8 Pumps compressors turbines and ejectors 9 Agitation and mixing techniques V Control and optimization techniques 10 Control and Monitoring 11 Rational use of energy

References Index Scale-up Methodology for Chemical Processes Jean-Paul Euzen, Pierre Trambouze, Jean-Pierre

Wauquier, 1993 Having gained considerable experience in process development at the Institut FranCais du PEtrole the authors present a design framework a review of the available means of investigation and several examples illustrating their methodology of industrial process scale up The salient feature of the book is the fact that it addresses a subject which is vital in view of its economic repercussions yet relatively unknown in technical and scientific circles due to the confidentiality surrounding it Contents 1 Main guidelines of the methodology 2 Various types of model 3 Pilot plants and mock ups 4 Experimental techniques 5 Applications to industrial process development 6 Conclusions References Index

Petroleum Refining. Vol.... Jean-Pierre Favennec, Robin Baker, **Petroleum Refining. Vol....** Jean-Pierre Wauquier, In this first volume the reader will find collected and condensed the information needed to characterize analyze and evaluate crude oils from different origins and their corresponding petroleum cuts as well The characteristics and specifications of all the

petroleum products along with their simplified process flowsheets are reviewed Contents 1 Composition of crude oils and petroleum products 2 Fractionation and elemental analysis of crude oils and petroleum cuts 3 Characterization of crude oils and petroleum fractions 4 Methods for the calculation of hydrocarbon physical properties 5 Characteristics of petroleum products for energy use motor fuels heating fuels 6 Characteristics of non fuel petroleum products 7 Standards and specifications of petroleum products 8 Evaluation of crude oils 9 Additives for motor fuels and lubricants 10 Introduction to refining Appendices Principal characteristics of pure components Principal standard test methods for petroleum products References Index

Chemical Process Technology Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2013-03-21 With a focus on actual industrial processes e g the production of light alkenes synthesis gas fine chemicals polyethene it encourages the reader to think out of the box and invent and develop novel unit operations and processes Reflecting today's emphasis on sustainability this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification The second edition includes New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries e g synthesis loop designs Sasol I Plant Kaminsky catalysts production of Ibuprofen click chemistry ammonia synthesis fluid catalytic cracking Questions throughout to stimulate debate and keep students awake Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology Second Edition is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject It will be invaluable to students of chemical engineering biotechnology and industrial chemistry as well as practising chemical engineers From reviews of the first edition The authors have blended process technology chemistry and thermodynamics in an elegant manner Overall this is a welcome addition to books on chemical technology The Chemist Impressively wide ranging and comprehensive an excellent textbook for students with a combination of fundamental knowledge and technology Chemistry in Britain now Chemistry World

Handbook of Bioplastics and Biocomposites Engineering Applications Srikanth Pilla, 2011-07-20 This Handbook is the first to explore the extensive applications made with bioplastics Civil Engineering Biomedical Automotive General Engineering The majority of the chapters review the properties processing characterization synthesis and applications of the bio based and biodegradable polymers and composites including Polymers such as polylactic acid PLA polyhydroxybutyrate PHB guar gum based plastics cellulose polyesters starch based bioplastics vegetable oil derived bioplastics biopolyethylene chitosan etc Thermoplastic and thermosetting bioplastics and biocomposites with a focus on the automobile industry The ways how to improve the properties of bioplastics polymer blends and biocomposites by combining them with both synthetic and natural fillers and reinforcements such as nanoclays nanotubes CNTs and natural fibers both wood and plant fibers Studies that expand the boundaries of bioplastics that will allow for the new materials to be applied to most generic engineering applications The Handbook will be of central interest to engineers

scientists and researchers who are working in the fields of bioplastics biocomposites biomaterials for biomedical engineering biochemistry and materials science The book will also be of great importance to engineers in many industries including automotive biomedical construction and food packaging

Industrial Energy Management Victor Kaiser,1993 This monography presents the tools available for the follow up and the analysis of the energy input to the refining and petrochemicals industries The first part familiarizes the reader with energy accounting in a production plant This analytic accounting presents separately the quantitative qualitative and economic aspects of using energy The second part treats of the thermodynamic analysis of energy input based on the exergy available work balances Apart from leading to a judgement of how efficiently the energy is put to work in the applied technology the reader also finds a guide to distillation column sequencing and heat exchange network synthesis The thermoeconomics are also dealt with This book is written for the practicing engineer in industry and for the postgraduate students

Resid and Heavy Oil Processing Jean-Francois Le Page,Jean-François Le Page,Sami G. Chatila,Michel Davidson,1992 This text reviews all conversion processes The reaction mechanisms the operating conditions and the advantages and disadvantages of each process are carefully analyzed and summarized Refining flow sheets involving several conversion processes are studied Concrete results are given and commented upon The book is designed to help refiners to make technical and economic choices among different processes so as to develop the refining flowsheet that best suits their needs Contents I Processing routes with carbon rejection General 1 Physical processes with carbon rejection 2 Carbon rejecting processes by thermal treatment II Resid process without carbon rejection General 1 Thermal conversion processes 2 Catalytic conversion under hydrogen pressure 3 Resid processing schemes References

Fischer-Tropsch Refining Arno de Klerk,2012-09-19 The Fischer Tropsch process is gaining recognition again due to the world wide increase in energy needs and decrease in oil availability The increasing interest in utilizing biomass as a potential renewable feedstock in energy generation is further supporting this development The book covers the production and refining of Fischer Tropsch syncrude to fuels and chemicals systematically and comprehensively presenting a wealth of new knowledge and material As such it deals extensively with aspects of engineering chemistry and catalysis This handbook and ready reference adopts a fundamental approach looking at the molecules and their transformation from feed to product Numerous examples illustrate the possibilities and limitations of Fischer Tropsch syncrude as feedstock Of great interest to everyone interested in refining not just Fischer Tropsch specialists From the Contents Fischer Tropsch Facilities and Refineries at a Glance Production of Fischer Tropsch Syncrude Industrial Fischer Tropsch Facilities Synthetic Transportation Fuels Refining Technology Refinery Design

Industrial Organic Chemicals Harold A. Wittcoff,Bryan G. Reuben,Jeffery S. Plotkin,2004 Publisher Description

Natural Gas Alexandre Rojey,1962

Emerging Carbon Capture Technologies Mohammad Khalid,Swapnil A. Dharaskar,Mika Sillanpää,Humaira Siddiqui,2022-04-22 Carbon dioxide CO₂ capture and conversion to value added products such as chemicals polymers and

carbon based fuels represents a promising approach to transform a potential threat to the environment into a value added product for long term sustainability Emerging Carbon Capture Technologies Towards a Sustainable Future provides a multidisciplinary view of the research that is being carried out in this field covering materials and processes for CO₂ capture and utilization and including a broad discussion of the impact of novel technologies in carbon capture on the energy landscape society and climate Of interest to students researchers and professionals in industries related to greenhouse gas mitigation post combustion CO₂ capture processes coal fired power plants environmental sustainability green solvents green technologies and the utilization of clean energy for environmental protection this book covers both the experimental and theoretical aspects of novel materials and process development providing a holistic approach toward a sustainable energy future Includes a wide range of processes and their applications Covers the experimental and theoretical aspects of novel materials and process development Includes techno economics analysis regulation policies and future prospects

Synthetic Rubbers Jean-Pierre Arlie, 1992

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