

Alpha Olefins Applications Handbook Chemical Industries

Handbook of Applied Surface and Colloid
ChemistrySynthetic Lubricants and High-performance
Functional FluidsLinear Alpha Olefins and
Biodegradable DetergentsBooks in PrintShape
Selective Catalysis in Industrial
ApplicationsDevelopment and Application of New
Strategies for the Functionalization of Unsaturated
MoleculesAqueous-Phase Organometallic
CatalysisCatalysis of Organic ReactionsEncyclopedia
of Chemical Processing and DesignTextile Technology
DigestHydrocarbon ChemistryEncyclopedia of
Chemical TechnologyRiegel's Handbook of Industrial
ChemistryKirk-Othmer Encyclopedia of Chemical
Technology, Volume 2Oil & Gas Science and
TechnologyRe-Engineering the Chemical Processing
PlantSynthetics, Mineral Oils, and Bio-Based
LubricantsHandbook of Grignard ReagentsUllmann's
Encyclopedia of Industrial ChemistryIonic
LiquidsClathrate Hydrates of Natural GasesPolyolefin
Reaction EngineeringHVAC and Chemical Resistance
Handbook for the Engineer and ArchitectEncyclopedia
of Environmental Information SourcesAlpha Olefins
Applications HandbookPolymers and Copolymers of
Higher A-olefinsChemical WeekEncyclopedia of
Chemical Technology: A to alkaloidsHandbook of
PolyolefinsEncyclopedia of Chemical Technology:
Index and SupplementChemical Functionalization of
Hydrogen-terminated Silicon SurfacesFundamentals
of Fluid Film LubricationPetroleum Refining
ProcessesJournal of Scientific and Industrial

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ResearchFunctionalization of PolyolefinsAgricultural
EngineeringCatalytic Naphtha ReformingHandbook of
ThermoplasticsHandbook of Transition Metal
Polymerization CatalystsChoice

Handbook of Applied Surface and Colloid Chemistry

A handbook on polyolefins. This second edition includes new material on the structure, morphology and properties of polyolefin (PO) synthesis. It focuses on synthetic advances, the use of additives, special coverage of PO blends, composites and fibres, and surface treatments. It also addresses the problem of interfacial and superficial phenomena.

Synthetic Lubricants and High- performance Functional Fluids

Linear Alpha Olefins and Biodegradable Detergents

Books in Print

Shape Selective Catalysis in Industrial Applications

Offers state-of-the-art information on all the major

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synthetic fluids, the established products and some highly promising experimental fluids with commercial potential. The book describes specific applications of synthetic fluids for lubrication, heat transfer, power transmission, electrical insulation, and corrosion inhibition, among other uses. including lubrication, automotive, aeronautical, heat transfer, and petroleum engineers as well as tribologists, research and petroleum chemists, grease formulators and upper-level undergraduate and graduate students in these disciplines.

Development and Application of New Strategies for the Functionalization of Unsaturated Molecules

Aqueous-Phase Organometallic Catalysis

Catalysis of Organic Reactions

Encyclopedia of Chemical Processing and Design

This is the first comprehensive book on the synthesis, properties, and applications of polymers and copolymers of linear and branched higher olefins. The book covers all aspects of the subject: polymerization catalysts, reaction mechanisms, polymer structures, chemical and physical properties, and technologies

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for synthesis and processing.

Textile Technology Digest

Includes bibliographical references (p. 1509-1813).

Hydrocarbon Chemistry

The fifth edition of the Kirk-Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions, which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernisation of the content to reflect changes and developments in chemical technology. Presenting a wide scope of articles on chemical substances, properties, manufacturing, and uses; on industrial processes, unit operations in chemical engineering; and on fundamentals and scientific subjects related to the field. The Encyclopedia describes established technology along with cutting edge topics of interest in the wide field of chemical technology, whilst uniquely providing the necessary perspective and insight into pertinent aspects, rather than merely presenting information. Set begins publication in March 2004 Over 1000 articles in 27 volumes More than 600 new or updated articles Reviews from the previous edition: "The most indispensable reference in the English language on all aspects of chemical technologythe best reference of its kind". —Chemical Engineering News, 1992 "Overall, ECT is well written

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and cleanly edited, and no library claiming to be a useful resource for chemical engineering professionals should be without it." —Nicholas Basta, Chemical Engineering, December 1992

Encyclopedia of Chemical Technology

Monomers composed of carbon and hydrogen atoms are the simple building blocks that make up polyolefins - molecules which are extremely useful and which have an extraordinary range of properties and applications. How these monomer molecules are connected in the polymer chain defines the molecular architecture of polyolefins. Written by two world-renowned authors pooling their experience from industry and academia, this book adopts a unique engineering approach using elegant mathematical modeling techniques to relate polymerization conditions, reactor and catalyst type to polyolefin properties. Readers thus learn how to design and optimize polymerization conditions to produce polyolefins with a given microstructure, and how different types of reactors and processes are used to create the different products. Aimed at polymer chemists, plastics technologists, process engineers, the plastics industry, chemical engineers, materials scientists, and company libraries.

Riegel's Handbook of Industrial Chemistry

Full text included in Knovel Library within the subject area of Chemistry and Chemical Engineering.

Kirk-Othmer Encyclopedia of Chemical Technology, Volume 2

Completely rewritten and updated, 'Clathrate Hydrates of Natural Gases', second edition presents a historical overview of clathrate hydrates and examines future trends, reviews crystal structures and properties, reveals industrial applications of clathrate hydrates in the production and processing of natural gas, discusses hydrate kinetics and elucidates the current status of hydrate time dependence, and analyzes time-independent phase equilibria. The second edition also furnishes entirely new information on structure H, the kinetics of nucleation, growth, and inhibition, phase equilibria, in situ hydrates, prevention and dissociation methods in production, pipelines, and processing and more.

Oil & Gas Science and Technology

Re-Engineering the Chemical Processing Plant

Offers coverage of all known commodity, transitional, engineering, high-temperature and high-performance thermoplastics, and analyzes emerging developments in the creation of new thermoplastics. The text examines: important issues in the field for each substance discussed, including history, development and commercialization; polymer formation mechanisms and process technologies; the affect of structural and phase characteristics on properties; the

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commercial relevance of thermoplastic blends, alloys, copolymers and composites; and more.

Synthetics, Mineral Oils, and Bio-Based Lubricants

This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion. It illustrates state-of-the-art engineering methods for the refinement of heavy oils, bitumen, and other high-sulphur feedstocks.

Handbook of Grignard Reagents

This handbook provides the theoretical and practical information necessary to explore new applications for Grignard reagents on a day-to-day basis, presenting a comprehensive overview of current research activities in Grignard chemistry. This book surveys specific reactions and applications of Grignard reagents, organized by type of substrate and the general category of reaction. It also summarizes the spectrum of reactions exhibited by Grignard reagents.

Ullmann's Encyclopedia of Industrial Chemistry

Ionic Liquids

Clathrate Hydrates of Natural Gases

This guide compiles research and frontline developments in the science of process intensification (PI). It illustrates the design, integration and application of PI principles and structures for the development and optimization of chemical and industrial plants.

Polyolefin Reaction Engineering

HVAC and Chemical Resistance Handbook for the Engineer and Architect

Summarizes the significant experimental results on the functionalization of polyolefins and classifies them into several chemical methods. This book also provides information on the functional polyolefin materials. It covers: chemical approaches in the functionalization of polyolefins, and polyolefin materials and their potential applications.

Encyclopedia of Environmental Information Sources

Alpha Olefins Applications Handbook

This work, written by a Nobel Prize-winning scientist, covers all aspects of the chemistry involved in hydrocarbon transformations. Each chapter deals with

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a specific type of transformation. There is comprehensive treatment of the chemistry of alkanes, alk

Polymers and Copolymers of Higher A-olefins

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

Chemical Week

"Contains the key papers presented at the American Chemical Society (ACS) national meeting symposium 'Green (or Greener) Industrial Applications of Ionic Liquids', held in San Diego, California, April 1-5, 2001"--Page xiii.

Encyclopedia of Chemical Technology: A to alkaloids

Specifically focusing on fluid film, hydrodynamic, and elastohydrodynamic lubrication, this edition studies the most important principles of fluid film lubrication for the correct design of bearings, gears, and rolling operations, and for the prevention of friction and wear in engineering designs. It explains various theories, procedures, and equations for improved solutions to machining challenges. Providing more than 1120

display equations and an introductory section in each chapter, *Fundamentals of Fluid Film Lubrication*, Second Edition facilitates the analysis of any machine element that uses fluid film lubrication and strengthens understanding of critical design concepts.

Handbook of Polyolefins

A one-stop resource for understanding and applying polymerization catalysts An edited volume featuring contributions from leading researchers, the *Handbook of Transition Metal Polymerization Catalysts* covers the design and synthesis of catalysts, and their applications in synthesis of polymers. Dealing with those polymerization catalysts that afford commercially acceptable yields of polymer with respect to catalyst mass and promising newer catalysts, this practical reference provides polymer and organic chemists with a comprehensive overview of the known methods for developing and applying these important catalysts. With both recent advances and historically important catalysts, the subjects covered in this text include: Metal alkyls and other compounds that function as co-catalysts with a large number of catalysts The varieties of porous silica either necessary or valuable in certain catalyst formulations Catalyst scale-up and commercialization Copper catalysts for olefin polymerization Morphology control Along with the above topics, the *Handbook of Transition Metal Polymerization Catalysts* provides tables of valuable data to assist in reproducing a synthesis or applying the knowledge to a new problem. Polymerization reactivities, polymer

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properties, monomer and solvent purity requirements, molecular weights, distribution, and reactivity ratios are also covered. The Handbook of Transition Metal Polymerization Catalysts offers an excellent one-stop resource for understanding and applying polymerization catalysts.

Encyclopedia of Chemical Technology: Index and Supplement

A guide to current and potential industrial applications of shape selective zeolite catalysis. A manual for workers in the field--and a bridge of technology transfer among various industries--this reference explains the fundamentals of zeolite catalysis, and describes the relation between catalyst structure and catalytic activity, and methods of achieving molecular shape selectivity. Includes chemical reactions using shape selective catalysts, and industrial processes using shape selective zeolites. Potential applications of the technology are in areas such as oil production, shale oil, coal, natural gas, internal combustion engine modification, biomass conversion, and the fermentation, chemical, and waste recovery industries. Annotation(c) 2003 Book News, Inc., Portland, OR (booknews.com)

Chemical Functionalization of Hydrogen-terminated Silicon Surfaces

Homogeneously catalyzed reactions suffer from one big disadvantage: separation of the catalyst from the products is complicated (and expensive) and catalyst

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recycling is often sub-optimal. This book describes homogeneously catalyzed reactions with a) organometallic complexes as catalysts in b) aqueous (and other) biphasic systems. The advantage of this method: One can separate the products (organic phase) from the catalyst (aqueous phase) by simply decanting the mixture. This saves time, money and waste! No wonder that it took only ten years from the first discovery of this method to industrial implementation of a 100 000 t/year plant. An international authorship contributed to this book and gave first-hand reports on their work. One focus is the hydroformylation process - the first industrial large scale aqueous biphasic catalytic process.

Fundamentals of Fluid Film Lubrication

Petroleum Refining Processes

The title is misleading until you check out the contents. It is all about HVAC and more. This compilation has organized data frequently used by Mechanical Engineers, Mechanical Contractors and Plant Facility Engineers. The book will end the frustration on a busy day searching for design criteria.

Journal of Scientific and Industrial Research

As the field of tribology has evolved, the lubrication industry is also progressing at an extraordinary rate. Updating the author's bestselling publication,

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Synthetic Lubricants and High-Performance Functional Fluids, this book features the contributions of over 60 specialists, ten new chapters, and a new title to reflect the evolving nature of the

Functionalization of Polyolefins

This book discusses the applications of higher linear alpha olefins containing 4 to 30 carbon atoms, describes current commercial uses of alpha olefins, and indicates potential new uses. It also documents methods of production and provides physical property and general property data on the olefins.

Agricultural Engineering

Catalytic Naphtha Reforming

Handbook of Thermoplastics

Handbook of Transition Metal Polymerization Catalysts

Choice

This unique, single-source reference offers complete coverage of the process and catalyst chemistry involved in naphtha reforming - from the preparation,

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characterization, and performance evaluation of catalysts to the operation of the catalyst itself - and evaluates the most recent research into unknown aspects of catalyst reactions, shedding light on the future of catalyst technology. Discussing the complexities of the reforming process, Catalytic Naphtha Reforming delineates commercially available processes and catalysts . . . explores the chemistry of the catalytic sites employed for reactions . . . examines catalyst deactivation, pretreating processes to prevent it, and regeneration processes . . . describes metals recovery as well as significant improvements in platinum reforming catalysts . . . explains process development and modeling . . . presents new commercial technologies . . . and much more.

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