

CHEMICAL INDUSTRIES SERIES

THIRD EDITION

Lubricant Additives

Chemistry and Applications



Edited by
Leslie R. Rudnick

Lubricant Additives Chemistry And Applications Chemical Industries

Leslie R. Rudnick



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Lubricant Additives Leslie R. Rudnick, 2009-04-20 Cost environmental and performance issues coupled with legislative changes new engine oil requirements and technology development for exploration of space and the oceans are changing the lubrication additive market Reflecting how the need for new applications drives the development of new lubricant additives *Lubricant Additives Chemistry and Applications* Second Edition presents methods to Improve the performance efficiency and stability of lubricants Protect metal surfaces from wear Select lubricant additives for the food processing industry Select the most appropriate ashless additives Avoid microbial degradation of lubricants Lower toxicity And describes Standard lubricant testing methods and product specifications Mechanisms and benefits of specific types of lubricant additives Recent industry trends Up to Date Coverage of Lubricant Additive Chemistry and Technology Addressing new trends in various industrial sectors and improvements in technology this second edition provides detailed reviews of additives used in lubricant formulations their chemistry mechanisms of action and trends for major areas of application It explores the design of cost effective environmentally friendly lubricant technologies and lubricants for automotive industrial manufacturing aerospace and food processing applications An extensive list of online industry resources is available for download at crcpress.com

Lubricant Additives Leslie R. Rudnick, 2017-07-12 This indispensable book describes lubricant additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry *Lubricant Additives* Leslie R. Rudnick, 2017

Synthetics, Mineral Oils, and Bio-Based Lubricants Leslie R. Rudnick, 2020-01-29 Highlighting the major economic and industrial changes in the lubrication industry since the first edition *Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology* Third Edition highlights the major economic and industrial changes in the lubrication industry and outlines the state of the art in each major lubricant application area Chapters cover the use of lubricant fluids growth or decline of market areas and applications potential new applications production capacities and regulatory issues including biodegradability toxicity and food production equipment lubrication The highly anticipated third edition features new and updated chapters including those on automatic and continuously variable transmission fluids fluids for food grade applications oil soluble polyalkylene glycols functional bio based lubricant base stocks farnesene derived polyolefins estolides bio based lubricants from soybean oil and trends in construction equipment lubrication Features include Contains an index of terms acronyms and analytical testing methods Presents the latest conventions for describing upgraded mineral oil base fluids Considers all the major lubrication areas engine oils industrial lubricants food grade applications greases and space

age applications Includes individual chapters on lubricant applications such as environmentally friendly disk drive and magnetizable fluids for major market areas around the globe In a single unique volume Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition offers property and performance information of fluids theoretical and practical background to their current applications and strong indicators for global market trends that will influence the industry for years to come Kirk-Othmer Encyclopedia of Chemical Technology, Volume 15 Kirk-Othmer,2005-10-06 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 began publication in January 2004 Over 1 000 articles More than 600 new or updated articles 27 volumes Surface Activity of Petroleum Derived Lubricants Lilianna Z. Pillon,2016-04-19 Hundreds of lubricant additives are available industry wide to improve base stock properties and protect metal surfaces however the wrong combination of these commodities can result in substandard performance Surface Activity of Petroleum Derived Lubricants explains how surface activity is affected by several factors the interfacial properties

Biolubricants Jan C.J. Bart,Emanuele Gucciardi,Stefano Cavallaro,2012-12-18 Lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem Bio based lubricant formulations present a promising solution Biolubricants Science and technology is a comprehensive interdisciplinary and timely review of this important subject Initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants Further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications Final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends With its distinguished authors Biolubricants Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject It provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry A comprehensive interdisciplinary and timely review of bio based lubricant formulations Addresses the principles of lubrication Reviews fossil

and bio based feedstock resources for biodegradable lubricants

Physical Chemistry and Chemical Physics Editor's Pick 2021 Malgorzata Biczysko, 2021-07-28

Chemistry and Technology of Lubricants Roy M. Mortier, Malcolm F. Fox, Stefan Orszulik, 2011-04-14 Chemistry and Technology of Lubricants describes the chemistry and technology of base oils additives and applications of liquid lubricants This Third Edition reflects how the chemistry and technology of lubricants has developed since the First Edition was published in 1992 The acceleration of performance development in the past 35 years has been as significant as in the previous century Refinery processes have become more precise in defining the physical and chemical properties of higher quality mineral base oils New and existing additives have improved performance through enhanced understanding of their action Specification and testing of lubricants has become more focused and rigorous Chemistry and Technology of Lubricants is directed principally at those working in the lubricants industry as well as individuals working within academia seeking a chemist's viewpoint of lubrication It is also of value to engineers and technologists requiring a more fundamental understanding of the subject

Synthetics, Mineral Oils, and Bio-Based Lubricants Leslie R. Rudnick, 2013-02-04 Highlighting the major economic and industrial changes in the lubrication industry since the first edition Synthetics Mineral Oils and Bio Based Lubricants Second Edition outlines the state of the art in each major lubricant application area Chapters cover trends in the major industries such as the use of lubricant fluids growth or decline of market areas and applications potential new applications production capacities and regulatory issues including biodegradability toxicity and food production equipment lubrication In a single unique volume Synthetics Mineral Oils and Bio Based Lubricants Second Edition offers property and performance information of fluids theoretical and practical background to their current applications and strong indicators for global market trends that will influence the industry for years to come

Chemical Process Engineering Harry Silla, 2003-08-08 Chemical Process Engineering presents a systematic approach to solving design problems by listing the needed equations calculating degrees of freedom developing calculation procedures to generate process specifications mostly pressures temperatures compositions and flow rates and sizing equipment This illustrative reference text tabulates numerous easy to follow calculation procedures as well as the relationships needed for sizing commonly used equipment

Transport Phenomena Fundamentals Joel L. Plawsky, 2020-02-27 The fourth edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition includes more worked examples within each chapter and adds confidence building problems at the end of each chapter Some numerical solutions are included in an appendix for students to check their comprehension of key concepts Additional resources online include exercises that can be practiced using a wide range of software programs available for simulating engineering problems such as COMSOL Maple Fluent Aspen Mathematica Python and MATLAB lecture notes and past exams This edition incorporates a wider range of problems to expand the utility of the text beyond chemical engineering

The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term s effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the full microscopic equations governing the phenomena to simplify the models and develop engineering solutions and it introduces macroscopic versions of the balance equations for use where the microscopic approach is either too difficult to solve or would yield much more information that is actually required The text discusses the momentum Bernoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the context of boundary layer theory Laminar flow situations are treated first followed by a discussion of turbulence The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures

Advances in Biorefineries Keith W. Waldron,2014-04-28 Biorefineries are an essential technology in converting biomass into biofuels or other useful materials Advances in Biorefineries provides a comprehensive overview of biorefining processing techniques and technologies and the biofuels and other materials produced Part one focuses on methods of optimizing the biorefining process and assessing its environmental and economic impact It also looks at current and developing technologies for producing value added materials Part two goes on to explore these materials with a focus on biofuels and other value added products It considers the properties limitations and practical applications of these products and how they can be used to meet the increasing demand for renewable and sustainable fuels as an alternative to fossil fuels Advances in Biorefineries is a vital reference for biorefinery process engineers industrial biochemists chemists biomass waste scientists and researchers and academics in the field A comprehensive and systematic reference on the advanced biomass recovery and conversion processes used in biorefineries Reviews developments in biorefining processes Discusses the wide range of value added products from biorefineries from biofuel to biolubricants and bioadhesives

Bubbles, Drops, and Particles in Non-Newtonian Fluids Raj P. Chhabra,Swati A. Patel,2023-08-31 The third edition of Bubbles Drops and Particles in Non Newtonian Fluids provides comprehensive coverage of the scientific foundations and the latest advances in particle motion in non Newtonian media Thoroughly updating and expanding its best selling predecessor this edition addresses numerical and experimental developments in non Newtonian particulate systems It includes a new chapter on heat transfer in non Newtonian fluids in the free and mixed convection regimes and thus covers forced convection regimes separately in

this edition Salient Features Demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multiphase flows Addresses heat transfer in Generalized Newtonian Fluid GNF visco plastic and visco elastic fluids throughout the book and outlines potential strategies for heat transfer enhancement Provides a new detailed section on the effect of confinement on heat transfer from bluff bodies in non Newtonian fluids Written in a clear and concise manner this book remains an excellent handbook and reference It is essential reading for students and researchers interested in exploring particle motion in different types of non Newtonian systems encountered in disciplines across engineering and the sciences *Chemical Process Performance Evaluation* Ali Cinar,Ahmet Palazoglu,Ferhan Kayihan,2007-01-11 The latest advances in process monitoring data analysis and control systems are increasingly useful for maintaining the safety flexibility and environmental compliance of industrial manufacturing operations Focusing on continuous multivariate processes Chemical Process Performance Evaluation introduces statistical methods and modeling te Introduction to Process Control Jose A. Romagnoli,Ahmet Palazoglu,2020-07-14 Introduction to Process Control Third Edition continues to provide a bridge between traditional and modern views of process control by blending conventional topics with a broader perspective of integrated process operation control and information systems Updated and expanded throughout this third edition addresses issues highly relevant to today s teaching of process control Discusses smart manufacturing new data preprocessing techniques and machine learning and artificial intelligence concepts that are part of current smart manufacturing decisions Includes extensive references to guide the reader to the resources needed to solve modeling classification and monitoring problems Introduces the link between process optimization and process control optimizing control including the effect of disturbances on the optimal plant operation the concepts of steady state and dynamic back off as ways to quantify the economic benefits of control and how to determine an optimal transition policy during a planned production change Incorporates an introduction to the modern architectures of industrial computer control systems with real case studies and applications to pilot scale operations Analyzes the expanded role of process control in modern manufacturing including model centric technologies and integrated control systems Integrates data processing reconciliation and intelligent monitoring in the overall control system architecture Drawing on the authors combined 60 years of teaching experiences this classroom tested text is designed for chemical engineering students but is also suitable for industrial practitioners who need to understand key concepts of process control and how to implement them The text offers a comprehensive pedagogical approach to reinforce learning and presents a concept first followed by an example allowing students to grasp theoretical concepts in a practical manner and uses the same problem in each chapter culminating in a complete control design strategy A vast number of exercises throughout ensure readers are supported in their learning and comprehension Downloadable MATLAB toolboxes for process control education as well as the main simulation examples from the book offer a user friendly software environment for interactively studying the examples in the text These can be

downloaded from the publisher's website Solutions manual is available for qualifying professors from the publisher

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 processes. 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 that 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. **Interfacial**

Properties of Petroleum Products Lilianna Z. Pilon, 2007-11-28 With mounting pressure to extract petroleum from oil sands and other unconventional sources, oil refineries must adapt their processing methods to handle increasingly heavy crude oils. Unlike traditional crude oils, the properties of heavier crude oils include higher viscosity, metal salt, and acid content. This causes their interfacial properties to deteriorate, leading to problems such as sedimentation, foaming, emulsification, rust, and corrosion, all of which make the manufacture, transportation, and storage of petroleum products more difficult. *Interfacial Properties of Petroleum Products* examines conventional and non-conventional processing techniques for crude oils and documents their effects on the composition and properties of petroleum products at the oil-solid, oil-air, oil-water, and oil-metal interfaces. Focusing on surface activity, the author examines the undesirable effects of processes such as solvent extraction, desalting, dewaxing, catalyst deactivation, and hydroprocessing, as well as trace element and water contamination. With each process, the author presents methods for improving interfacial properties, including the use of surface-active additives, demulsifiers, antifoaming agents, and corrosion/rust inhibitors. A distinctive and up-to-date source of materials published together for the first time, *Interfacial Properties of Petroleum Products* will help engineers design more cost-effective and resource-efficient processing methods for heavier crude oils based on the properties of the crude oil extracted. *Chemical Reaction Engineering and Reactor Technology, Second Edition* Tapio O. Salmi, Jyri-Pekka

Mikkola, Johan P. Wärnå, 2019-07-11 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products, and numerous factors must be considered when selecting an appropriate and efficient chemical reactor.

Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes. Thoroughly revised and updated, this much anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering. Offering a systematic development of the chemical reaction engineering concept, this volume explores essential stoichiometric, kinetic, and thermodynamic terms needed in the analysis of chemical reactors: homogeneous and heterogeneous reactors, reactor optimization aspects, residence time distributions, and non-ideal flow conditions in industrial reactors; solutions of algebraic and ordinary differential equation systems; gas and liquid phase diffusion coefficients and gas film coefficients; correlations for gas-liquid systems; solubilities of gases in liquids; guidelines for laboratory reactors and the estimation of kinetic parameters. The authors pay special attention to the exact formulations and derivations of mass and energy balances and their numerical solutions. Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals, the text provides a clear understanding of chemical reactor analysis and design.

Grease Lubrication in Rolling Bearings Piet M. Lugt, 2013-02-18

The definitive book on the science of grease lubrication for roller and needle bearings in industrial and vehicle engineering. *Grease Lubrication in Rolling Bearings* provides an overview of the existing knowledge on the various aspects of grease lubrication, including lubrication systems and the state-of-the-art models that exist today. The book reviews the physical and chemical aspects of grease lubrication, primarily directed towards lubrication of rolling bearings. The first part of the book covers grease composition, properties, and rheology, including thermal and dynamic properties. Later chapters cover the dynamics of greased bearings, including grease life, bearing life, reliability, and testing. The final chapter covers lubrication systems, the systems that deliver grease to the components requiring lubrication.

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