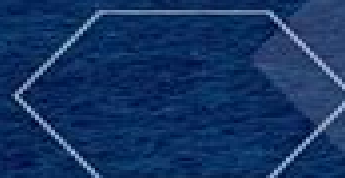


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Chemistry and Applications



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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

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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

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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

Interfacial Properties of Petroleum Products Lilianna Z. Pillon, 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

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 dynamics properties Later chapters cover the dynamics of greased bearings including grease life bearing life reliability and testing The final chapter covers lubrications systems the systems that deliver grease to the components requiring lubrication Grease Lubrication in Rolling Bearings Describes the underlying physical and chemical properties of grease Discusses the effect of load speed temperature bearing geometry bearing materials and grease type on bearing wear Covers both bearing and grease performance including thermo mechanical ageing and testing methodologies It is intended for researchers and engineers in the petro chemical and bearing industry industries related to this e g wind

turbine industry automotive industry and for application engineers It will also be of interest for teaching in post graduate courses

Hydroprocessing of Heavy Oils and Residua Jorge Ancheyta, James G. Speight, 2007-05-08 Many oil refineries employ hydroprocessing for removing sulfur and other impurities from petroleum feedstocks Capable of handling heavier feedstocks than other refining techniques hydroprocessing enables refineries to produce higher quality products from unconventional and formerly wasted sources Hydroprocessing of Heavy Oils and Residua *Advances in Fischer-Tropsch Synthesis, Catalysts, and Catalysis* B. H. Davis, Mario L. Occelli, 2009-11-10 Rising oil costs have stimulated significant interest in the Fischer Tropsch synthesis FTS as a method for producing a synthetic petroleum substitute Drawn from the proceedings at a symposium held during the 236th meeting of the American Chemical Society in Philadelphia in August 2008

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