



Gas-Liquid and Liquid-Liquid Separators

Maurice Stewart
Ken Arnold



Gas Liquid And Liquid Liquid Separators Elsevier

André B. de Haan, Johan T. Padding



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Process Technology André B. de Haan, Johan T. Padding, 2022-03-07 The book provides a general overview about process technology It focuses on the structure and development of production processes main technological operations and some important aspects of process economics For the technological operations the authors emphasize operating principles reasons for application and available industrial equipment Dynamics of Multiphase Flows Chao Zhu, Liang-Shih Fan, Zhao Yu, 2021-06-17 Address physical principles and unified theories governing multiphase flows with methods applications and problems **Solvent Engineering** Yaocihuatl Medina-Gonzalez, 2024-12-18 This book aims to present the concept of Solvent Engineering within a broad scope ranging from mixtures of solvents to achieve the desired solvation properties to stimuli responsive solvents It covers diverse aspects such as thermodynamics and transfer phenomena associated with solvent engineering as well as applications found in recent literature spanning materials across science biochemistry chemistry and separation and purification processes among others Solvent engineering is proposed as an innovative strategy to address environmental concerns related to the use of volatile and toxic solvents This book highlights efforts to develop engineered solvents that offer more environmentally acceptable alternatives as against those currently in use

Gas-Liquid And Liquid-Liquid Separators Maurice Stewart, Ken Arnold, 2008-10-02 Gas Liquid And Liquid Liquid Separators is practical guide designed to help engineers and operators develop a feel for selection specification operating parameters and trouble shooting separators form an understanding of the uncertainties and assumptions inherent in operating the equipment The goal is to help familiarize operators with the knowledge and tools required to understand design flaws and solve everyday operational problems for types of separators Gas Liquid And Liquid Liquid Separators is divided into six parts Part one and two covers fundamentals such as physical properties phase behaviour and calculations Part three through five is dedicated to topics such as separator construction factors affecting separation vessel operation and separator operation considerations Part six is devoted to the ASME codes governing wall thickness determination of vessel weight fabrication inspection alteration and repair of separators 500 illustrations Easy to understand calculations methods Guide for protecting downstream equipment Helps reduce the loss of expensive intermediate ends Helps increase product purity Liquid-Gas and Solid-Gas Separators Jean-Paul Duroudier, 2016-11-08 Liquid Gas and Solid Gas Separators part of the Industrial Equipment for Chemical Engineering set details the magnetic properties of solids and their separation in a magnetic field After a thorough description of the electronic filter and its functioning numerical examples are given for the functioning of Venturi which is a convergent divergent The centrifugal separator with superimposed plates theory is also developed alongside the screw mud pump The author also provides the methods needed for understanding the equipment used in applied thermodynamics in the hope of encouraging students and engineers to self build the programs they need Chapters are complemented with appendices that provide additional information and associated references Presents a

comprehensive example of a real world simulation of a venturi Examines a centrifugal decanter designed to separate the components of a liquid solid Details the magnetic properties of solids and their separation in a magnetic field Physics of Petroleum Reservoirs Xuetao Hu, Shuyong Hu, Fayang Jin, Su Huang, 2017-08-08 This book introduces in detail the physical and chemical phenomena and processes during petroleum production It covers the properties of reservoir rocks and fluids the related methods of determining these properties the phase behavior of hydrocarbon mixtures the microscopic mechanism of fluids flowing through reservoir rocks and the primary theories and methods of enhancing oil recovery It also involves the up to date progress in these areas It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation

Chemical Process Retrofitting and Revamping Gade Pandu Rangaiah, 2016-01-22 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these feature make the book useful to industrial engineers researchers and students

Research and Development Progress Report United States. Office of Saline Water, 1970

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Liquids Alternative Separation Processes And Many Other Topics **Abstracts of Literature on the Distillation of Seawater and on the Use of Nuclear Energy for Desalting** Karl Otto Johnsson,1970 **Encyclopedia of Environmental Analysis and Remediation, Volume 6** Robert A. Meyers,1998-03-23 With the growing concern over the environment new industries and research areas have been developed to identify monitor regulate and legislate environmental interactions as well as to determine and repair existing environmental damage For both the expert and the newcomer a quick convenient and comprehensive source is needed to answer questions on the rapidly increasing amount of environmental information The Encyclopedia of Environmental Analysis and Remediation EEAR responds to this need by providing the reader with an in depth examination of the environmental analysis and remediation fields in a single eight volume reference source **Hydrodynamics of Gas-solids Fluidization** Nicholas P. Cheremisinoff,Paul N. Cheremisinoff,1984 **Papers Presented at 3rd North American Conference on Multiphase Technology, Banff, Canada, 6-7 June 2002** Cem Sarica,Garry A. Gregory,2002 **Proceedings of the ASME Fluids Engineering Division Summer Conference, 2006: (parts A and B) Symposia** American Society of Mechanical Engineers. Fluids Engineering Division,2006 Petroleum Abstracts ,1997 **Chemical and Process Engineering Unit Operations** Kathleen Bourton,1968 **Chemical Engineering Progress** ,1993 **Encyclopedia of Environmental Analysis and Remediation, Volume 1** Robert A. Meyers,1998 With the growing concern over the environment new industries and research areas have been developed to identify monitor regulate and legislate environmental interactions as well as to determine and repair existing environmental damage For both the expert and the newcomer a quick convenient and comprehensive source is needed to answer questions on the rapidly increasing amount of environmental information The Encyclopedia of Environmental Analysis and Remediation EEAR responds to this need by providing the reader with an in depth examination of the environmental analysis and remediation fields in a single eight volume reference source **The Canadian Journal of Chemical Engineering** ,2007-02 **British Books in Print** ,1985

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