



## Gas-Liquid and Liquid-Liquid Separators

Maurice Stewart  
Ken Arnold



# Gas Liquid And Liquid Liquid Separators Elsevier

**A. Kayode Coker**



## **Gas Liquid And Liquid Liquid Separators Elsevier:**

**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 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 **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 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 **Standard Handbook of Petroleum and Natural Gas Engineering** William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and

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**Encyclopedia of Electrochemical Power Sources** ,2024-10-03 The Encyclopedia of Electrochemical Power Sources Second Edition is a comprehensive seven volume set that serves as a vital interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With an increased focus on the environmental and economic impacts of electrochemical power sources this work not only consolidates extensive coverage of the field but also serves as a gateway to the latest literature for professionals and students alike The field of electrochemical power sources has experienced significant growth and development since the first edition was published in 2009 This is reflected in the exponential growth of the battery market the improvement of many conventional systems and the introduction of new systems and technologies This completely revised second edition captures these advancements providing updates on all scientific technical and economic developments over the past decade Thematically arranged this edition delves into crucial areas such as batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells It explores challenges and advancements in electrode and electrolyte materials structural design optimization application of novel materials and performance analysis This comprehensive resource with its focus on the future of electrochemical power sources is an essential tool for navigating this rapidly evolving field Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates 365 articles with timely coverage of environmental and sustainability aspects Arranged thematically to facilitate easy navigation of topics and easy exploration of the field across its key branches Follows a consistent structure and features elements such as key objective boxes summaries figures references and cross references etc to help students faculty and professionals alike

**Chemical Process Retrofitting and Revamping** Gade Pandu Rangaiah,2016-03-07 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

**Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents** A. Kayode Coker, 2024-06-08 Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format

**Proceedings of the 4th International Conference on Industrial Engineering** Andrey A. Radionov, Oleg A. Kravchenko, Victor I. Guzeev, Yuriy V. Rozhdestvenskiy, 2018-12-07 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering are discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial mechatronics automation and robotics The book gathers selected papers presented at the 4th International Conference on Industrial Engineering ICIE held in Moscow Russia in May 2018 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope the book will

be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

**Towards Green Hydrogen Generation** Mehmet Sankir,Nurdan Demirci Sankir,2024-10-01

Readers will find a multidisciplinary approach elucidating all the important features of green hydrogen so that science researchers and energy engineers as well as those in economics political science and international relations will also find value Energy sources and generation is the foremost concern of all governments NGOs and activist groups With Green New Deals and reduced or net zero emission goals being implemented on a global scale the quest for economic scalable efficient and sustainable energy systems has reached a fever pitch No one energy source ticks all the boxes and new energy technologies are being developed all the time as potential disruptors Enter green hydrogen with zero emissions Hydrogen is a rare gas in nature and is often found together with natural gas While hydrogen is the most abundant element in the known universe molecular hydrogen is very rare in nature and needs to be produced and produced in large quantities if we are serious about the Green Deal This book has been organized into three parts to introduce and discuss these crucial topics Part I discusses the Green Deal and the current state and challenges encountered in the industrialization of green hydrogen production as well as related politics Chapters in this section include how to decarbonize the energy industry with green hydrogen and one that describes a gradual shift in the approach of hydrogen production technologies from non renewable to renewable Part II is devoted to carbon capturing and hydrogen Chapters on biomass mass waste to hydrogen conversion and related efficient and sustainable hydrogen storage pathways life cycle assessment for eco design of biohydrogen factory by microalgae and metal oxide based carbon capture technologies are all addressed in this section The third and final part of the book was designed to present all features of green hydrogen generation Chapters include PEM water electrolysis and other electrolyzers wind driven hydrogen production and bifunctional electrocatalysts driven hybrid water splitting are introduced and thoroughly discussed Audience This book is directed to researchers and industry professionals in energy engineering chemistry physics materials science and chemical engineering as well as energy policymakers energy economists and others in the social sciences

**Applied Electrostatics (ICAES 2004)** SUN SUN KEPING,Gefei Yu,2004-12-21 This proceedings contains papers presented at the 5th International Conference on Applied Electrostatics held in Shanghai China on November 2 5 2004 The ICAES 2004 Conference is of wide interest as is shown by the contributions received from 11 countries and districts throughout the world About 90 researchers attend the conference and more than 100 papers were submitted for presentation in the proceedings The paper sessions covered following topics fundamentals and physics applications precipitation pollution control spray separation material Ozone etc hazards and problems biology technology electrets measuring technology electromagnetic compatibility and others These papers demonstrated recent research level and developing trends of the entire electrostatic field

Surface Production Operations, Volume 1 Maurice Stewart,Ken E. Arnold,2011-03-31 The latest edition of this best selling title is updated and expanded for easier use by engineers New to this

edition is a section on the fundamentals of surface production operations taking up topics from the oilfield as originally planned by the authors in the first edition This information is necessary and endemic to production and process engineers Now the book offers a truly complete picture of surface production operations from the production stage to the process stage with applications to process and production engineers New in depth coverage of hydrocarbon characteristics the different kinds of reservoirs and impurities in crude Practical suggestions help readers understand the art and science of handling produced liquids Numerous easy to read figures charts tables and photos clearly explain how to design specify and operate oilfield surface production facilities

Exergy for A Better Environment and Improved Sustainability 1 Fethi Aloui,Ibrahim Dincer,2018-08-04 This multi disciplinary book presents the most recent advances in exergy energy and environmental issues Volume 1 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide Based on selected lectures from the Seventh International Exergy Energy and Environmental Symposium IEEEES7 2015 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles Furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book Exergy for Better Environment and Sustainability Volume 1 will appeal to researchers students and professionals within engineering and the renewable energy fields

**Comprehensive Biotechnology** ,2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science

**Chemical Engineering Design** Ray Sinnott,Gavin Towler,2009-05-15 Chemical Engineering Design is one of the best known and most widely adopted texts available for students of chemical engineering It completely covers the standard chemical engineering final year design course and is widely used as a graduate text The hallmarks of this renowned book have always been its scope practical emphasis and closeness to the curriculum That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity Building on this position of strength the fifth edition covers the latest

aspects of process design operations safety loss prevention and equipment selection and much more Comprehensive in coverage exhaustive in detail and supported by extensive problem sets at the end of each chapter this is a book that students will want to keep to hand as they enter their professional life The leading chemical engineering design text with over 25 years of established market leadership to back it up an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package the book offers a broader scope better curriculum coverage more extensive ancillaries and a more student friendly approach at a better price than any of its competitors Endorsed by the Institution of Chemical Engineers guaranteeing wide exposure to the academic and professional market in chemical and process engineering      *Chemical Engineering* Ray Sinnott,J.F. Richardson,J.M. Coulson,2013-10-22 An introduction to the art and practice of design as applied to chemical processes and equipment It is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the UK and USA It has been written to complement the treatment of chemical engineering fundamentals given in Chemical Engineering volumes 1 2 and 3 Examples are given in each chapter to illustrate the design methods presented      *Chemical Process Equipment* James R. Couper,2005-01-06 List of Examples Rules of Thumb Introduction Flowsheets Process Control Drivers for Moving Equipment Transfer of Solids Flow of Fluids Fluid Transport Equipment Heat Transfer and Heat Exchangers Dryers and Cooling Towers Mixing and Agitation Solid Liquid Separation Disintegration Agglomeration and Size Separation of Particulate Solids Distillation and Gas Absorption Extraction and Leaching Adsorption and Ion Exchange Crystallization from Solutions and Melts Chemical Reactors Process Vessels Other Topics Costs of Individual Equipment Appendices Index      Studies of Intensified Small-scale Processes for Liquid-Liquid Separations in Spent Nuclear Fuel Reprocessing Dimitrios Tsaoulidis,2015-09-09 The present work focuses on the development of intensified small scale extraction units for spent nuclear fuel reprocessing using advanced process engineering with combined experimental and modelling methodologies It discusses a number of novel elements such as the intensification of spent fuel reprocessing and the use of ionic liquids as green alternatives to organic solvents The use of ionic liquids in two phase liquid liquid separation is new to the Multiphase Flow community and has proved to be challenging especially in small channels because of the surface and interfacial properties involved which are very different to those of common organic solvents Numerical studies have been also performed to couple the hydrodynamics at small scale with the mass transfer The numerical results taken together with scale up studies are used to evaluate the applicability of the small scale units in reprocessing large volumes of nuclear waste      **Process Optimisation** J. K. Walters,P. K. Andow,A.V. Bridgwater,2017-07-07 Process Optimisation documents the proceedings of a three day Symposium organized by the Midlands Branch of The Institution of Chemical Engineers held at the University of Nottingham on 7 9 April 1987 The initiative for this Symposium on Process Optimization came from Dr K C Mecklenburgh a Senior Lecturer at the University of

Nottingham who was Chairman of the Organizing Committee from its inception until his death in November 1986 Mecklenburgh was a scholarly man an acknowledged authority on Plant Layout and Safety and a man very active in all aspects of the Institution s affairs This volume contains 27 papers organized into three sections and follows the development of Process Plant from conception to operation The papers in Section 1 discuss Project Selection with an emphasis on financial implications resource availability and energy matters Section 2 is devoted to Process Design where detailed optimization possibilities are considered including safety and hazard assessment Section 3 covers Plant Operation where condition monitoring revamp and computing and control systems are all considered for optimization

**Current Trends and Future Developments on (Bio-) Membranes** Adolfo Iulianelli, Angelo Basile, 2020-07-22 In the last decade the attention paid to the environmental protection has generated a considerable interest towards the development of new energy carriers and green energy production methods Hydrogen as an energy carrier becomes a potential important source of energy due to its neutral environmental impact However its production transformation and purification presents a challenge in the so called hydrogen economy Current Trends and Future Developments on Bio Membranes gives a comprehensive review on the present state of the art of the hydrogen production and purification using new and alternative technologies stressing green processes and environment protection The book covers green processes renewable feedstocks utilization and membrane reactor technology for hydrogen production in line with new process intensification strategy The book is divided in four sections ie fundamentals of hydrogen generation its impact on environmental issue new applications involving hydrogen and its storage and distribution The main scope of this book is to offer a new horizon on hydrogen generation and utilization It stresses the role of new technologies for hydrogen generation including the micro reactors technology for portable applications their combination with high temperature fuel cells the role of gas separation for both hydrogen purification and CO<sub>2</sub> sequestration the exploitation of renewable sources biogas bioethanol and other renewables feedstocks in reforming processes useful to generate hydrogen membrane and membrane reactor technology as well as membrane bio reactors etc Presents process intensification and commercialization of new and alternative hydrogen generation technologies Relates new hydrogen production methods to their environmental impact Outlines the fundamentals of hydrogen generation Includes new developed technologies for hydrogen transport and storage

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