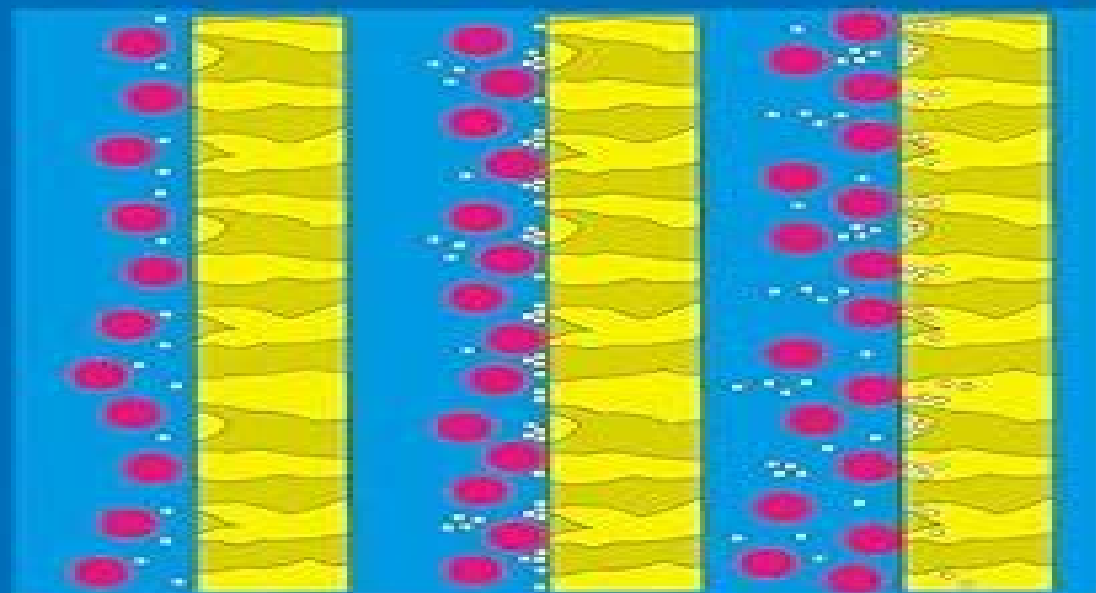


A. Rushton, A. S. Ward, R. G. Holdich

Solid-Liquid Filtration and Separation Technology



Solid Liquid Filtration And Separation Technology

Dennis R. Heldman, Carmen I. Moraru



Solid Liquid Filtration And Separation Technology:

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Solid-Liquid Separation Technologies Olayinka I. Ogunsola, Isaac K. Gamwo, 2022-04-19 This book presents

recent research and advances in various solid liquid separation technologies and some applications for treating produced water. It covers fundamental principles and the importance of produced water in major industrial sectors and compares solid liquid separation technologies. In addition, this book presents the results of research studies conducted to evaluate the performance of solid liquid separation technologies. Discusses a wide range of technologies including membrane filtration, crystallization, desalination, supercritical fluids, coagulation, and floatation. Includes experimental, theoretical modeling, and process design studies. With its comprehensive coverage, this book is an essential reference for chemical researchers, scientists, and engineers in industry, academia, and professional laboratories. It is also an important resource for graduate and advanced undergraduate students studying solid liquid separations.

Handbook of Fluidization and Fluid-Particle Systems Wen-Ching Yang, 2003-03-19 This reference details particle characterization, dynamics, manufacturing, handling, and processing for the employment of multiphase reactors, as well as procedures in reactor scale up and design for applications in the chemical, mineral, petroleum, power, cement, and pharmaceuticals industries. The authors discuss flow through fixed beds, elutriation, and entrainment; gas distributor and plenum design in fluidized beds; effect of internal tubes and baffles; general approaches to reactor design; applications for gasifiers and combustors; dilute phase pneumatic conveying; and applications for chemical production and processing. This is a valuable guide for chemists and engineers to use in their day to day work.

Principles of Filtration Chi Tien, 2012-04-19 This book covers filtration in various modes of operation for both solid gas and solid liquid suspensions. It provides the necessary knowledge and background information to prepare and equip persons who are interested in serious filtration work. It is a useful reference text for students and practicing engineers. It can also be adopted as an advanced text book for various engineering courses in chemical, environmental, mechanical, and metallurgical engineering. The book presents analysis and treatment of filtration processes employing different filter media operating in various modes for both gas solid and liquid solid systems. Presents a concise overview of filtration enabling full understanding of the applications as well as the underlying theoretical foundations. Presents filtration techniques in its entirety, i.e. gas solid and liquid solid separations, and outlines their differences, coverage not found in any of the existing publications. Presents rational procedures for analysing experimental data in a clear and easy to understand fashion by students and engineers. Includes numerous illustrative examples enabling understanding of the underlying theory and selection of the most suitable solution for the particular application. Provides detailed filter parameters, efficiency coefficients vital in the design of filters. Includes problems and solutions at the end of each chapter connecting the theoretical concepts with the practical aspects for engineers. Written by the top expert on the subject of filtration.

Encyclopedia of Agricultural, Food, and Biological Engineering Dennis R. Heldman, Carmen I. Moraru, 2010-10-21 Examining the role of engineering in delivery of quality consumer products, this expansive resource covers the development and design of procedures, equipment, and systems utilized in the production and conversion of raw materials into food and nonfood consumer goods. With nearly 2000 photographs

figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology

Solid-Liquid Filtration Barry A. Perlmutter, 2015-02-06 Practical Guides in Chemical Engineering are a cluster of short texts that each provides a focused introductory view on a single subject The full library spans the main topics in the chemical process industries that engineering professionals require a basic understanding of They are pocket publications that the professional engineer can easily carry with them or access electronically while working Each text is highly practical and applied and presents first principles for engineers who need to get up to speed in a new area fast The focused facts provided in each guide will help you converse with experts in the field attempt your own initial troubleshooting check calculations and solve rudimentary problems Solid Liquid Filtration covers the basic principles and mechanisms of filtration filtration testing including filter aids and filter media types of filtration systems selection of filtration systems and typical operating and troubleshooting approaches This guide also discusses general applications and tips for process filtration and can be utilized by process engineers as a framework for idea generation when analyzing filtration for an operating bottleneck issue or a new process development problem Practical short concise information on the basics will help you get an answer or teach yourself a new topic quickly Supported by industry examples to help you solve a real world problem Single subject volumes provide key facts for professionals

Filters and Filtration Handbook Kenneth S Sutherland, George Chase, 2011-04-18 Filters are used in most industries especially the water sewage oil gas food and beverage and pharmaceutical industries The new edition of this established title is an all encompassing practical account of standard filtration equipment and its applications Completely revised and rewritten it is an essential book for the engineer working in a plant situation who requires guidance and information on what is available and whether it is suitable for the job Co published with the Institution of Chemical Engineers Co published with the Institution of Chemical Engineers The leading practical engineering guide to filtration techniques systems and their applications Meets the needs of all key sectors where filtration is a critical process including chemical processing and manufacture food oil and gas air conditioning and water A comprehensive sourcebook and reference for plant engineers process engineers plant designers filter media and filtration specialists and equipment specifiers

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Solid Liquid Filtration And Separation Technology**

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