

Separation Process Engineering

Includes Mass Transfer Analysis

Third Edition

Phillip C. Wankat

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J Ma

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Separation Process Engineering Phillip C. Wankat, 2022-10-24 The Definitive Learner Friendly Guide to Chemical Engineering Separations Extensively Updated Including a New Chapter on Melt Crystallization Efficient separation processes are crucial to addressing many societal problems from developing new medicines to improving energy efficiency and reducing emissions Separation Process Engineering Fifth Edition is the most comprehensive accessible guide to modern separation processes and the fundamentals of mass transfer In this completely updated edition Phillip C Wankat teaches each key concept through detailed realistic examples using actual data with up to date simulation practice spreadsheet based exercises and references Wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more His extensive discussions of mass transfer and diffusion enable faculty to teach separations and mass transfer in a single course And detailed material on liquid liquid extraction adsorption chromatography and ion exchange prepares students for advanced work New and updated content includes melt crystallization steam distillation residue curve analysis batch washing the Shanks system for percolation leaching eutectic systems forward osmosis microfiltration and hybrid separations A full chapter discusses economics and energy conservation including updated equipment costs Over 300 new and updated homework problems are presented all extensively tested in undergraduate courses at Purdue University New chapter on melt crystallization solid liquid phase equilibrium suspension static and falling film layer approaches and 34 questions and problems New binary VLE equations and updated content on simultaneous solutions New coverage of safety and fire hazards New material on steam distillation simple multi component batch distillation and residue curve analysis Expanded discussion of tray efficiencies packed column design and energy reduction in distillation New coverage of two hybrid extraction with distillation and the Kremser equation in fractional extraction Added sections on deicing with eutectic systems eutectic freeze concentration and scale up New sections on forward osmosis and microfiltration Expanded advanced content on adsorption and ion exchange including updated instructions for eight detailed Aspen Chromatography labs Discussion of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications Thirteen up to date Aspen Plus process simulation labs adaptable to any simulator This guide reflects an up to date understanding of how modern students learn designed organized and written to be exceptionally clear and easy to use It presents detailed examples in a clear standard format using real data to solve actual engineering problems preparing students for their future careers

Industrial Separation Processes André B. de Haan, H. Burak Eral, Boelo Schuur, 2025-05-06 Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering and makes this book with its wealth of exercises and solutions ideally suited to university teaching The Third edition boasts an even

greater number of applied examples and updated chapters on drying adsorption and membranes Separation Process Engineering Phillip Wankat, 2011 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage of membrane separations and of sorption separations adsorption chromatography and ion exchange available Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes This new edition includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation Author bio Phillip C Wankat is Clifton L Lovell Distinguished Professor of Chemical Engineering and director of undergraduate degree programs at Purdue University's School of Engineering Education His current research interests include adsorption large scale chromatography simulated moving bed systems and distillation as well as improvements in engineering education He rece Separation Process Engineering Phillip C. Wankat, 2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author's previous book Equilibrium

Staged Separations Enhancements include improved organization extensive new coverage and more than 75% new homework problems all tested in the author's Purdue University classes Coverage includes Detailed problems with real data organized in a common format for easier understanding Modular simulation exercises that support courses taught with simulators without creating confusion in courses that do not use them Extensive new coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A detailed introduction to adsorption chromatography and ion exchange everything students need to understand advanced work in these areas Discussions of standard equilibrium stage processes including flash distillation continuous column distillation batch distillation absorption stripping and extraction **Separation Process Engineering** Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation **Handbook of Downstream Processing** E. Goldberg, 2012-12-06 The last two decades have seen a phenomenal growth of the field of genetic or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products typically through the manipulation and growth of different types of microorganisms followed by the recovery and purification of the associated products The engineers and biotechnologists who are involved in the full scale process design of such facilities must be familiar with the variety of unit operations and equipment and the

applicable regulatory requirements This book describes current commercial practice and will be useful to those engineers working in this field in the design construction and operation of pharmaceutical and biotechnology plants It will be of help to the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as Should the process be batch or continuous or a combination of batch and continuous How should the optimum process design be developed Should one employ a new revolutionary separation which could be potentially difficult to validate or use accepted technology which involves less risk Should the process be run with ingredients formulated from water for injection deionized water or even filtered tap water Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible Should the process equipment and lines be designed to be sterilized in place cleaned in place or should every piece be broken down cleaned and autoclaved after every turn

Physicochemical

Treatment Processes Lawrence K. Wang,Yung-Tse Hung,Nazih K. Shamma,2005-03-11 The past 30 years have seen the emergence of a growing desire worldwide to take positive actions to restore and protect the environment from the degrading effects of all forms of pollution air noise solid waste and water Because pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste exists we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved The principal intention of the Handbook of Environmental Engineering series is to help readers formulate answers to the last two questions The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However realization of the ever increasing complexity and interrelated nature of current environmental problems makes it imperative that intelligent planning of pollution abatement systems be undertaken

Handbook of Civil Engineering Calculations, Third Edition Tyler G. Hicks,2016-07-04 Up To Date Techniques for Solving Any Civil Engineering Problem Perform complex design and construction calculations quickly and accurately with help from this thoroughly revised guide Handbook of Civil Engineering Calculations Third Edition features more than 3 000 logically organized calculations that align with the latest practices codes and standards You will get start to finish calculation procedures for Load Resistance Factor Design LRFD anti terrorism components enhanced building security green construction safe bridge design and environmentally sound water treatment All new steps to improve indoor air quality and protect structures from hurricanes tornadoes floods and waves are also discussed in this on the job resource This fully updated third edition covers Structural Steel Engineering and Design Reinforced and Pre stressed Concrete Engineering and Design Timber Engineering Soil Mechanics Surveying Route Design and Highway Bridges Fluid Mechanics Pumps Piping and

Hydro Power Water Supply and Storm Water System Design Sanitary Wastewater Treatment and Control Engineering Economics **Transport Processes and Separation Process Principles** Christie John Geankoplis, Allen Hersel, Daniel H. Lepek, 2018-05-02 The Complete Unified Up to Date Guide to Transport and Separation Fully Updated for Today's Methods and Software Tools Transport Processes and Separation Process Principles Fifth Edition offers a unified and up to date treatment of momentum heat and mass transfer and separations processes. This edition reorganized and modularized for better readability and to align with modern chemical engineering curricula covers both fundamental principles and practical applications and is a key resource for chemical engineering students and professionals alike. This edition provides New chapter objectives and summaries throughout. Better linkages between coverage of heat and mass transfer. More coverage of heat exchanger design. New problems based on emerging topics such as biotechnology, nanotechnology and green engineering. New instructor resources additional homework problems, exam questions, problem solving videos, computational projects and more. Part 1 thoroughly covers the fundamental principles of transport phenomena organized into three sections: fluid mechanics, heat transfer and mass transfer. Part 2 focuses on key separation processes including absorption, stripping, humidification, filtration, membrane separation, gaseous membranes, distillation, liquid-liquid extraction, adsorption, ion exchange, crystallization and particle size reduction, settling, sedimentation, centrifugation, leaching, evaporation and drying. The authors conclude with convenient appendices on the properties of water, compounds, foods, biological materials, pipes, tubes and screens. The companion website (trine.edu/transport5ed) contains additional homework problems that incorporate today's leading software including Aspen CHEMCAD, MATLAB, COMSOL and Microsoft Excel.

Chemical Engineering Catalog, 1919 *Proceedings of the 44th Industrial Waste Conference* May 1989, Purdue University, John W. Bell, 2018-02-06 New research case histories and operating data on every conceivable facet of today's big problem are detailed in the latest Purdue Book with unparalleled appropriate usable information and data for your current industrial waste problems from the May 1989 Conference.

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Laboratory Procedures for Hydrometallurgical-processing and Waste-management Experiments Don C. Seidel, 1995 This report describes generic procedures and equipment arrangements for conducting laboratory scale hydrometallurgical and related waste management experiments. It provides a starting point for personnel who have received or are receiving professional training but do not have specific experience in laboratory procedures. With guidance it also has application as a resource for technician training. The publication contains chapters on laboratory safety, feed sample preparation, leaching, solids/liquid separation and recovery from solution.

Information Circular, 1995 *Chemical Engineering Progress*, 2006 **Engineering Education**, 1977 **Scientific and Technical Books and Serials in Print**, 1984 **Solutions Manual to Accompany Separation Processes** Cary Judson King, 1980 **Engineering and Mining Journal**, 1917 **Air Pollution**

Engineering Manual Air & Waste Management Association, 1992 THE AIR WASTE MANAGEMENT ASSOCIATION is the world's leading membership organization for environmental professionals. The Association enhances the knowledge and competency of environmental professionals by providing a neutral forum for technology exchange, professional development, networking opportunities, public education and outreach events. The Air Waste Management Association promotes global environmental responsibility and increases the effectiveness of organizations and individuals in making critical decisions that benefit society.

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