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Transport Processes and Separation Process Principles (includes Unit Operations) Christie John Geankoplis, 2013-07-25 Appropriate for one year transport phenomena also called transport processes and separation processes course First semester covers fluid mechanics heat and mass transfer second semester covers separation process principles includes unit operations The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles Includes Unit Operations This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used The main objectives and the format of the Fourth Edition remain the same The sections on momentum transfer have been greatly expanded especially in the sections on fluidized beds flow meters mixing and non Newtonian fluids Material has been added to the chapter on mass transfer The chapters on absorption distillation and liquid liquid extraction have also been enlarged More new material has been added to the sections on ion exchange and crystallization The chapter on membrane separation processes has been greatly expanded especially for gas membrane theory

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reflecting the field's current methods and applications *Transport Processes And Separation Process Principles (Includes Unit Operations) 4Th Ed.* Christie J. Geankoplis, 2003

Chemical Engineering Computation with MATLAB® Yeong Koo Yeo, 2020-12-15 *Chemical Engineering Computation with MATLAB* Second Edition continues to present basic to advanced levels of problem solving techniques using MATLAB as the computation environment. The Second Edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version 2020. It also includes a new chapter on computational intelligence and offers exercises and extensive problem solving instruction and solutions for various problems. Features solutions developed using fundamental principles to construct mathematical models and an equation oriented approach to generate numerical results. Delivers a wealth of examples to demonstrate the implementation of various problem solving approaches and methodologies for problem formulation, problem solving, analysis and presentation as well as visualization and documentation of results. Includes an appendix offering an introduction to MATLAB for readers unfamiliar with the program which will allow them to write their own MATLAB programs and follow the examples in the book. Provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression, parameter estimation in differential systems, two point boundary value problems and partial differential equations and optimization. This essential textbook readies engineering students, researchers and professionals to be proficient in the use of MATLAB to solve sophisticated real world problems within the interdisciplinary field of chemical engineering. The text features a solutions manual, lecture slides and MATLAB program files.

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.

Transport Phenomena in Biological Systems George A. Truskey, Fan Yuan, David F. Katz, 2009 For one semester advanced undergraduate graduate courses in Biotransport Engineering. Presenting engineering fundamentals and biological applications in a unified way, this text provides students with the skills necessary to develop and critically analyze models of biological transport and reaction processes. It covers topics in fluid mechanics, mass transport and biochemical interactions with engineering concepts motivated by specific biological problems.

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

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Transport Processes and Unit Operations Christie J. Geankoplis, 1983 This new third edition provides a modern unified treatment of the basic transport processes of momentum heat and mass transfer as well as a broad treatment of the unit operations of chemical engineering Coverage includes the latest membrane separation processes discussion of bioprocesses comprehensive treatment of the transport processes of momentum heat and mass transfer adsorption processes and more A useful up to date reference for practicing chemical engineers agricultural engineers food scientists environmental engineers biochemical engineers and others who work in the process industries

Analysis, Synthesis, and Design of Chemical Processes Richard Turton, Joseph A. Shaeiwitz, Debangsu Bhattacharyya, Wallace B. Whiting, 2018-06-15 The Leading Integrated Chemical Process Design Guide With Extensive Coverage of Equipment Design and Other Key Topics More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Fifth Edition presents design as a creative process that integrates the big picture and small details and knows which to stress when and why Realistic from start to finish it moves readers beyond classroom exercises into open ended real world problem solving The authors introduce up to date integrated techniques ranging from finance to operations and new plant design to existing process optimization The fifth edition includes updated safety and ethics resources and economic factors indices as well as an extensive new section focused on process equipment design and performance covering equipment design for common unit operations such as fluid flow heat transfer separations reactors and more Conceptualization and analysis process diagrams configurations batch processing product design and analyzing existing processes Economic analysis estimating fixed capital investment and manufacturing costs measuring process profitability and more Synthesis and

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