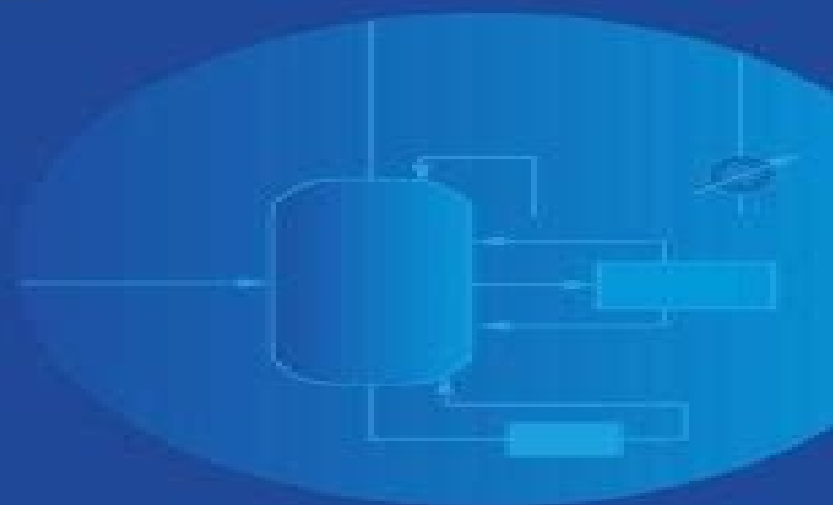


Principles of Chemical Separations with Environmental Applications



Richard D. Noble and Patricia A. Terry

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Juan J. de Pablo, Jay D. Schieber



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Chemical separations are of central importance in many areas of environmental science whether it is the clean up of polluted water or soil the treatment of discharge streams from chemical processes or modification of a specific process to decrease its environmental impact This book is an introduction to chemical separations focusing on their use in environmental applications The authors first discuss the general aspects of separation technology as a unit operation They also describe how property differences are used to generate separations the use of separating agents and the selection criteria for particular separation techniques The general approach for each technology is to present the chemical and or physical basis for the process and explain how to evaluate it for design and analysis The book contains many worked examples and homework problems It is an ideal textbook for undergraduate and graduate students taking courses on environmental separations or environmental engineering

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nonlinear reduced models of the dynamics in each time scale Hierarchical control architectures consisting of coordinated levels of control action in different time scales are proposed for each class of process systems considered to enforce stability tracking performance and disturbance rejection Numerous process applications are discussed in detail to illustrate the application of the methods and their potential to improve process operations MATLAB codes are also presented to guide further application of the methods developed and facilitate practical implementations Computational Models for Polydisperse Particulate and Multiphase Systems Daniele L. Marchisio,Rodney O. Fox,2013-03-28 All inclusive introduction to polydisperse multiphase flows linking theory to practice through numerous real world examples and MATLAB scripts for key algorithms *Colloidal Suspension Rheology* Jan Mewis,Norman J. Wagner,2012 Presented in an accessible and introductory manner this is the first book devoted to the comprehensive study of colloidal suspensions

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