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© 1996-2014. Amazon.com, Inc. or its affiliates The requested URL was not found on this server. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Apache/2.4.41 (Ubuntu) Server at sourcing.gfn.panda.org Port 443 Registrar Gratis Accede a nuestras Descargas Privadas Chemical and Biochemical OperationsSeparation Process Principles was first published in 1998 to provide a comprehensive treatment of the major separation operations in the chemical industry. Both equilibrium-stage and mass-transfer models were covered. Included also were chapters on thermodynamic and mass-transfer theory for separation operations. In the second edition, published in 2006, the separation operations of ultrafiltration, microfiltration, leaching, crystallization, desublimation, evaporation, drying of solids, and simulated moving beds for adsorption were added. This third edition recognizes the growing interest of chemical engineers in the biochemical industry, and is renamed Separation Process Principles—Chemical and Biochemical Operations.In 2009, the National Research Council (NRC), at the request of the National Institutes of Health (NIH), National Science Foundation (NSF), and the Department of Energy (DOE), released a report calling on the United States to launch a new multiagency, multiyear, multidisciplinary initiative to capitalize on the extraordinary advances being made in the biological fields that could significantly help solve world problems in the energy, environmental, and health areas. To help provide instruction in the important bioseparations area, we have added a third author, D. Keith Roper, who has extensive industrial and academic experience in this area.New to This EditionBioseparations are corollaries to many chemical engineering separations. Accordingly, the material on bioseparations has been added as new sections or chapters as follows: Chapter 1: An introduction to bioseparations, including a description of a typical bioseparation process to illustrate its unique features. Chapter 2: Thermodynamic activity of biological species in aqueous solutions, including discussions of pH, ionization, ionic strength, buffers, biocolloids, hydrophobic interactions, and biomolecular reactions. Chapter 3: Molecular mass transfer in terms of driving forces in addition to concentration that are important in bioseparations, particularly for charged biological components. These driving forces are based on the Maxwell–Stefan equations. Chapter 3: Extraction of bioproducts, including solvent selection for organic–aqueous extraction, aqueous two– phase extraction, and bioextractions, particularly in Karr columns and Podbielniak centrifuges. Chapter 14: Microfiltration is now included in Section 3 on transport, while ultrafiltration is covered in a new section on membranes in bioprocessing. Chapter 15: A revision of previous Sections 15.3 and 15.4 into three sections, with emphasis in new Sections 15.3 and 15.6 on bioseparations involving adsorption and chromatography. A new section on electrophoresis for separating charged particles such as nucleic acids and proteins is added. Chapter 17: Bioproduct crystallization. Chapter 18: Drying of bioproducts. Chapter 19: Mechanical Phase Separations. Because of the importance of phase separations in chemical and biochemical processes, we have also added this new chapter on mechanical phase separations covering settling, filtration, and centrifugation, including mechanical separations in biotechnology and cell lysis.Other features new to this edition are: Study questions at the end of each chapter to help the reader determine if important points of the chapter are understood. Boxes around important fundamental equations. Shading of examples so they can be easily found. Answers to selected exercises at the back of the book. Increased clarity of exposition: This third edition has been completely rewritten to enhance clarity. Sixty pages were eliminated from the second edition to make room for biomaterial and updates.More examples, exercises, and references: The second edition contained 214 examples, 649 homework exercises, and 839 references. This third edition contains 272 examples, 719 homework exercises, and more than 1,100 references.Contents:Part 1. Fundamental concepts Chapter 1. Separation Processes Chapter 2. Thermodynamics of Separation Processes Chapter 3. Mass Transfer and Diffusion Chapter 4. Single Equilibrium Stages and Flash Calculations Chapter 5. Cascades and Hybrid SystemsPart 2. Separations by phase addition or creation Chapter 6. Absorption and Stripping of Dilute Mixtures Chapter 7. Distillation of Binary Mixtures Chapter 8. Liquid-Liquid Extraction with Ternary Systems Chapter 9. Approximate Methods for Multicomponent, Multistage Separations Chapter 10. Equilibrium-Based Methods for Multicomponent Absorption, Stripping, Distillation, and Extraction Chapter 11. Enhanced Distillation and Supercritical Extraction Chapter 12. Rate-Based Models for Vapor-Liquid Separation Operations Chapter 13. Batch DistillationPart 3. Separations by barriers and solid agents Chapter 14. Membrane Separations Chapter 15. Adsorption, Ion Exchange, Chromatography, and ElectrophoresisPart 4. Separations that involve a solid phase Chapter 16. Leaching and Washing Chapter 17. Crystallization, Desublimation, and Evaporation Chapter 18. Drying of SolidsPart 5. Mechanical separation of phases Chapter 19. Mechanical Phase SeparationsDescargar PDF Descargar EPUB Descargar RARBuscadorCategorías Separation Process Principles, 3rd Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. This third edition is renamed Separation Process Principles – Chemical and Biochemical Operations to reflect the inclusion of bioseparations in several chapters. Extraordinary advances that are being made in the biological fields could significantly help solve world problems in the energy, environmental, and health areas. To help provide instruction in the important bioseparations area, a new author has been added for this edition, D. Keith Roper, who has extensive industrial and academic experience in bioseparations. Separation Process Principles, 3rd Edition provides review chapters on thermo and mass transfer, comprehensive discussion of many separation processes, photos, diagrams, and descriptions of process equipment, and challenging, realistic problems. Improved clarity, study questions, and boxed equations and examples in this 3rd edition are especially helpful for students encountering separation processes for the first time. Separation Process Principles, 3rd Edition prepares students for professional practice, and is a reference they'll value as practicing engineers. The requested URL was not found on this server. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Apache/2.4.41 (Ubuntu) Server at m.central.edu Port 443 Full PDF PackageDownload Full PDF PackageThis PaperA short summary of this paper33 Full PDFs related to this paperDownloadPDF Pack

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