

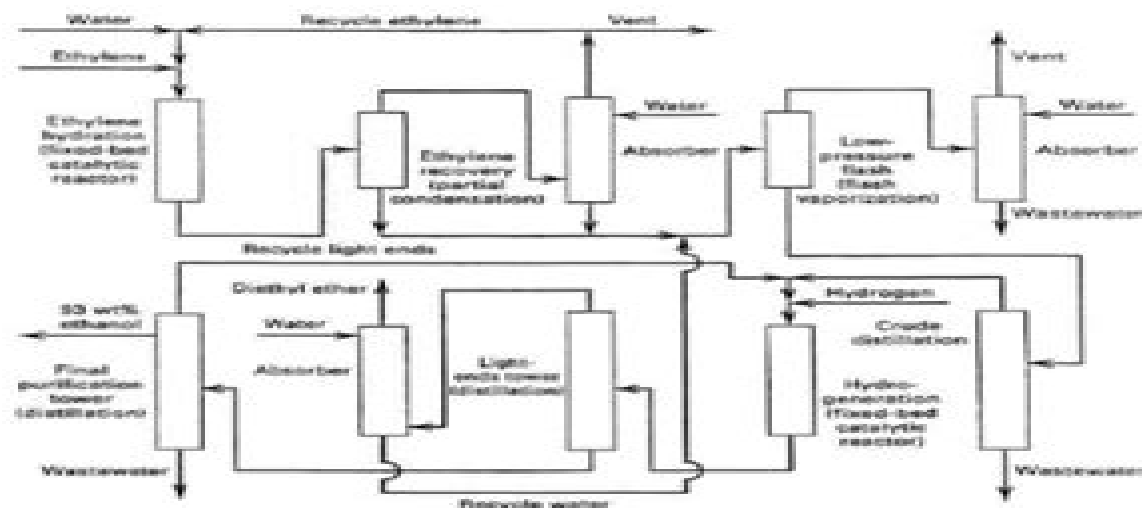
Exercise 1.1

Subject: Separation operations in an ethanol process.

Given: Flow sheet for the process.

Find: Operation in each block of the process

Analysis: The flow sheet is as follows:



Starting from the left side of the top row, number the equipment blocks 1-5. On the next row, number them from right to left as 6-10.

1. The feed to the reactor contains ethylene, propylene, and water. The very incomplete reaction effluent of gas contains, in addition: ethyl alcohol, diethyl ether, acetaldehyde, and isopropyl alcohol.
2. Most of the chemicals, except most of the ethylene, are condensed and sent to item 4. The remaining gas is sent to 3.
3. The ethylene is recovered from the small quantity of other chemicals in the absorber. Most of the ethylene is recycled to 1. The water and other chemicals are sent to 4.
4. Remaining ethylene is flashed off and sent to 5. The liquid contains most of the hydrocarbons and is sent to 6.

Seader Henley Solutions Manual 3rd Ed

Paige Hunter,S. Ted Oyama



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Separation Process Principles with Applications Using Process Simulators J. D. Seader, Ernest J. Henley, D. Keith Roper, 2016 Covers the key topics in computer organization and embedded systems This title presents hardware design principles and shows how hardware design is influenced by the requirements of software It explains the main principles supported by examples drawn from commercially available processors **Chemical Engineering Education**, 1997

Principles and Modern Applications of Mass Transfer Operations Jaime Benitez, 2016-12-27 A staple in any chemical engineering curriculum New edition has a stronger emphasis on membrane separations chromatography and other adsorptive processes ion exchange Discusses many developing topics in more depth in mass transfer operations especially in the biological engineering area Covers in more detail phase equilibrium since distillation calculations are completely dependent on this principle Integrates computational software and problems using Mathcad Features 25 30 problems per chapter **Purification of Biotechnological Products** Adalberto Pessoa Jr, Beatriz Vahan Kilikian, Paul Long, 2024-05-23

This outstanding text focuses on providing professionals and students working in the pharmaceutical and biotechnology field with the background necessary for developing of a product or process and with the necessary rigor required by federal regulatory agencies in the pharmaceutical industry The material will enable teachers lecturers and professors in biotechnology to prepare courses on basic concepts and applications for the purification of biotechnological products of industrial interest These can be applied in practice for example with projects on purification development on an industrial scale or useful unit operations for the development of bioproducts of commercial interest Features Purification and development of new bioproducts and improvement of those being produced Provides a background and concepts on the purification of biomolecules and with an industrial perspective It allows professionals to understand the entire process of developing a biopharmaceutical or bio food from bench to industry in biotechnology one of the fastest growing sectors of the economy It promotes the dissemination of information in a didactic way which is of paramount importance for interdisciplinary fields It enables the reader to follow step by step stages of the development of a new biopharmaceutical and allows the optimization of existing processes **PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES**

DUTTA, BINAY K., 2007-01-21 This textbook is targetted to undergraduate students in chemical engineering chemical technology and biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in equipment have been included as far as possible The procedure of equipment design and sizing has been illustrated by simple examples

An overview of different applications and aspects of membrane separation has also been provided Humidification and water cooling necessary in every process industry is also described Finally elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered

SALIENT FEATURES A balanced coverage of theoretical principles and applications Important recent developments in mass transfer equipment and practice are included A large number of solved problems of varying levels of complexities showing the applications of the theory are included Many end chapter exercises Chapter wise multiple choice questions An Instructors manual for the teachers

Introduction to Adsorption Chi Tien, 2018-11-27 Introduction to Adsorption Basics Analysis and Applications presents adsorption basics that are relevant and essential to its application including data analysis interpretation and design calculations The book deliberately keeps background information to a minimum instead comprehensively covering adsorption of liquid solutions the difference between equilibrium individual solute uptake and surface excess a general discussion of adsorbate uptake mechanisms and uptake rate expression uptake steps performance models and their generalizations application of performance models and design methods based on the constant behavior assumption and unused bed length concept Includes adsorption basics and their applications Discusses gas adsorption equilibrium and equilibrium of liquid adsorption Gives the various steps of adsorbate uptake and their combination to yield adsorbate uptake rate expression Presents both rational and empirical design for adsorption processes Highlights common mistakes found in recent adsorption publications

Numerical Modeling of Mixing in Large Stably Stratified Enclosures Using TRACMIX++ Jakob Christensen, 2003

Numerical Methods for Engineers Santosh K Gupta, 1995 This Book Is Intended To Be A Text For Either A First Or A Second Course In Numerical Methods For Students In All Engineering Disciplines Difficult Concepts Which Usually Pose Problems To Students Are Explained In Detail And Illustrated With Solved Examples Enough Elementary Material That Could Be Covered In The First Level Course Is Included For Example Methods For Solving Linear And Nonlinear Algebraic Equations Interpolation Differentiation Integration And Simple Techniques For Integrating Odes And Pdes Ordinary And Partial Differential Equations Advanced Techniques And Concepts That Could Form Part Of A Second Level Course Include gears Method For Solving Ode Ivps Initial Value Problems Stiffness Of Ode Ivps Multiplicity Of Solutions Convergence Characteristics The Orthogonal Collocation Method For Solving Ode Bvps Boundary Value Problems And Finite Element Techniques An Extensive Set Of Graded Problems Often With Hints Has Been Included Some Involve Simple Applications Of The Concepts And Can Be Solved Using A Calculator While Several Are From Real Life Situations And Require Writing Computer Programs Or Use Of Library Subroutines Practice On These Is Expected To Build Up The Reader S Confidence In Developing Large Computer Codes

Separation Process Principles J. D. Seader, Ernest J. Henley, 1998-01-23 This book examines rate based and equilibrium based approaches to separation operations It describes the fundamentals of all separation operations of commercial interest and includes theory and application examples in each chapter as well as over

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