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1.1 Classification of Transport Processes and Separation ...

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crystallization. The chapter on membrane separation processes has been greatly expanded especially for gas-membrane theory.

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

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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.

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This textbook is targeted 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

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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.

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- An Instructors manual for the teachers

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The present book contains a comparison of existing theoretical models developed in order to describe membrane separation processes. In general, the permeation equations resulting from these models give inaccurate predictions of the mutual effects of the permeants involved, due to the simplifications adopted in their derivation. It is concluded that an optimum description of transport phenomena in tight (diffusion-type) membranes is achieved with the "solution-diffusion" model. According to this model each component of a fluid mixture to be separated dissolves in the membrane and passes through by diffusion in response to its gradient in the chemical potential. A modified Flory-Huggins equation has been derived to calculate the solubility of the permeants in the membrane material.

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Contrary to the original Flory-Huggins equation, the modified equation accounts for the large effect on solubility of crystallinity and elastic strain of the polymer chains by swelling. The equilibrium sorption of liquids computed with this equation was found to be in good agreement with experimental results. Also, the sorption of gases in both rubbery and glassy polymers could be described quantitatively with the modified Flory-Huggins equation without any need of the arbitrary Langmuir term, as required in the conventional "dual-mode" sorption model. Furthermore, fewer parameters are required than with the at least identical accuracy.

Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation

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Operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.

Mass transfer along with separation processes is an area that is often quite challenging to master, as most volumes currently available complicate the learning

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by teaching mass transfer linked with heat transfer, rather than focusing on more relevant techniques. With this thoroughly updated second edition, *Mass Transfer and Separation Processes: Principles and Applications* presents a highly thoughtful and instructive introduction to this sophisticated material by teaching mass transfer and separation processes as unique though related entities. In an ever increasing effort to demystify the subject, with this edition, the author—

- Avoids more complex separation processes
- Places a greater emphasis on the art of simplifying assumptions
- Conveys a greater sense of scale with the inclusion of numerous photos of actual installations
- Makes the math only as complicated as necessary while reviewing fundamental principles that may have been forgotten

The book explores essential principles and reinforces the concepts with classical and

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contemporary illustrations drawn from the engineering, environmental, and biological sciences. The theories of heat conduction and transfer are utilized not so much to draw analogies but rather to make fruitful use of existing solutions not seen in other texts on the subject. Both an introductory resource and a reference, this important text serves environmental, biomedical, and engineering professionals, as well as anyone wishing to gain a grasp on this subject and its increasing relevance across a number of fields. It fills a void in traditional chemical engineering literature by providing access to the principles and working practices that allow mass transfer theory to be applied to separation processes.

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