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In Transport Processes and Separation Process Principles, Fourth Edition, author Christie John Geankoplis offers a unified and fully updated treatment of momentum transfer, heat transfer, mass transfer, and separation processes. Enhancements to this edition include a more thorough coverage of transport processes, plus new or expanded coverage of separation process applications, fluidized beds, non-Newtonian fluids, membrane separation processes and gas-membrane theory, and much more.

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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.

Transport Processes and Separation Process Principles

1.1 Classification of Transport Processes and Separation Processes (Unit Operations) 1.1A Introduction In the chemical and other physical processing industries, such as the food and biological processing industries, many similarities exist in the manner in which the entering feed materials are modified or processed into final products.

1.1 Classification of Transport Processes and Separation ...

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Geankoplis, Christie J. 1993 Transport Processes And Unit Operations. Topics chemcial engineering Collection folkscanomy; additional_collections Language English. Geankoplis, Christie J. - 1993 - Transport processes and unit operations. Addeddate 2015-07-19 01:51:25 Identifier

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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 This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used.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.

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 between coverage of heat and mass transfer More coverage of heat exchanger design New problems based on emerging topics such as biotechnology, nanotechnology, and green engineering New instructor resources: additional homework problems, exam questions, problem-solving videos, computational projects, and more Part 1 thoroughly covers the fundamental principles of transport phenomena, organized into three sections: fluid mechanics, heat transfer, and mass transfer. Part 2 focuses on key separation processes, including absorption, stripping, humidification, filtration, membrane separation, gaseous membranes, distillation, liquid-liquid extraction, adsorption, ion exchange, 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 book presents recent research in the field of transport phenomena in porous materials, including heat and mass transfer, drying and adsorption. Covering a comprehensive range of topics related to the transport phenomenon in engineering (including state-of-the-art, theory and technological applications), it discusses some of the most important theoretical advances, computational developments and applications in porous materials domain. Providing an update on the current state of knowledge, this self-contained reference resource will appeal to scientists, researchers and engineers in a variety of disciplines, such as chemical, civil, agricultural and mechanical engineering.

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 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.

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. 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.

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