

Transport Processes AND Separation Process Principles

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CHRISTIE JOHN GEANKOPLIS

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Transport Processes and Separation Process Principles Christie John Geankoplis, Allen Hersel, Daniel H. Lepek, 2018-05-02 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 *The Literature of Agricultural Engineering* Carl W. Hall, Wallace C. Olsen, 1992 The second of a seven volume series *The Literature of the Agricultural Sciences* this book analyzes the trends in published literature of agricultural engineering during the past century

with emphasis on the last forty years It uses citation analysis and other bibliometric techniques to identify the most important journals report series and monographs for the developed countries as well as those in the Third World **The British National Bibliography** Arthur James Wells,1979 **Ceramic Membranes** Vitaly Gitis,Gadi Rothenberg,2016-08-22 Ein wichtiges Lehrwerk f r ein zunehmend wichtiges Fachgebiet gelungene Einf hrung pr gnante Darstellung der Grundlagen der Membranseparation berblick ber Charakterisierungstechniken f r keramische Membranen industrielle Anwendungen und deren Wirtschaftlichkeit Transport Processes Christie J. Geankoplis,1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

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