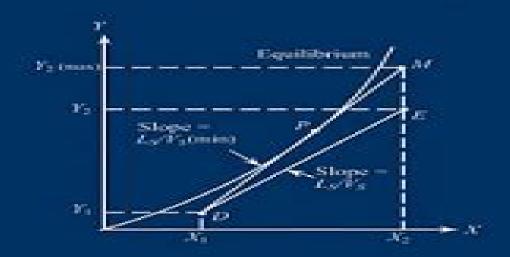
Principles and Modern Applications of

Mass Transfer Operations

SECOND EDITION



JAIME BENÍTEZ

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problems in each chapter A complete solution manual for all end of chapter problems both in Mathcad and Python is also provided Some of the topics covered in Principles and Applications of Mass Transfer include Molecular mass transfer covering concentrations velocities and fluxes the Maxwell Stefan relations and Fick's first law for binary mixtures The diffusion coefficient covering diffusion coefficients for binary ideal gas systems dilute liquids and concentrated liquids Convective mass transfer covering mass transfer coefficients dimensional analysis boundary layer theory and mass and heat transfer analogies Interphase mass transfer covering diffusion between phases material balances and equilibrium stage operations Gas dispersed gas liquid operations covering sparged vessels tray towers diameter and gas pressure drop and weeping and entrainment Principles and Applications of Mass Transfer is an essential textbook for undergraduate chemical biochemical mechanical and environmental engineering students taking a core course on Separation Processes or Mass Transfer Operations along with mechanical engineers and mechanical engineering students starting to get involved in combined heat and mass transfer applications *Principles and Modern Applications of Mass Transfer Operations* Jaime Benitez, 2002-05-28 A complete contemporary account of mass transfer operations at the undergraduate level While Mass Transfer Operations is a required course in every undergraduate chemical engineering program in the world there does not exist a comprehensive text on the subject that is specifically tailored to the undergraduate reader Principles and Modern Applications of Mass Transfer Operations responds to this need providing a thorough accessible text that presents the latest advances in the science as well as sets of targeted guestions that challenge students knowledge The focus throughout Jaime Benitez s peerless study is on making the student consider computation from the start of a mass transfer dilemma Twenty five to thirty problems at the end of each chapter ensure that readers will remain actively engaged with the material Principles incorporates examples of computational software such as Mathcad 2001 Matlab r Mathematica and Aspen Graphics and also includes an ftp site that offers problems for each of these software applications as well as a Solutions Manual Chapters encompass Fundamentals of mass transfer Convective mass transfer Interphase mass transfer Equipment for gas liquid mass transfer operations Absorption and stripping Distillation Liquid liquid extraction Ideal for a first course in mass transfer operations this text will also prove valuable to chemical and environmental engineers researchers and university faculty **Principles and Modern Applications of Mass Transfer Operations** Jaime Benitez, 2011-09-20 A problem solving approach that helps students master new material and put their knowledge into practice The Second Edition of the acclaimed Principles and Modern Applications of Mass Transfer Operations continues to provide a thorough accessible text that gives students the support and the tools they need to quickly move from theory to application This latest edition has been thoroughly revised and updated with new discussions of such developing topics as membrane separations ion exchange multistage batch distillation and chromatography and other adsorptive processes Moreover the Second Edition now covers mass transfer phenomena in biological systems making the text appropriate for students in biochemical engineering as well

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Forthcoming Books Rose Arny, 2002

Solutions Manual for Mass Transfer Basmadjian/Diran, 2007-03-01 **Solutions Manual for Mass Transfer** Laurie Kelly,2004-04 Principles and Modern Applications of Mass Transfe R Operations Benitez, 2002-09-01 Solution Manual for Exercises in Momentum, Energy, and Mass Transfer in Continua John Charles Slattery, 1981* Solution Manual for Exercises in Momentum, Energy, and Mass Transfer in Contrinua John Charles Slattery, 1981 **Solutions** Manual to Accompany Momentum, Heat, and Mass Transfer Carroll O. Bennett, John Earle Myers, 1974 Solutions Manual to Accompany Mass-transfer Operations Robert Ewald Treybal, 1980 Solutions Manual to Accompany Momentum, **Heat, and Mass Transfer, Second Edition** Carroll O. Bennett, John Earle Myers, 1974 **Solutions Manual to** Accompany Mass-transfer Operations, Third Edition Robert Ewald Treybal, 1980 **Chapters 1-7** Frank P. Incropera, David P. DeWitt, 1996

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