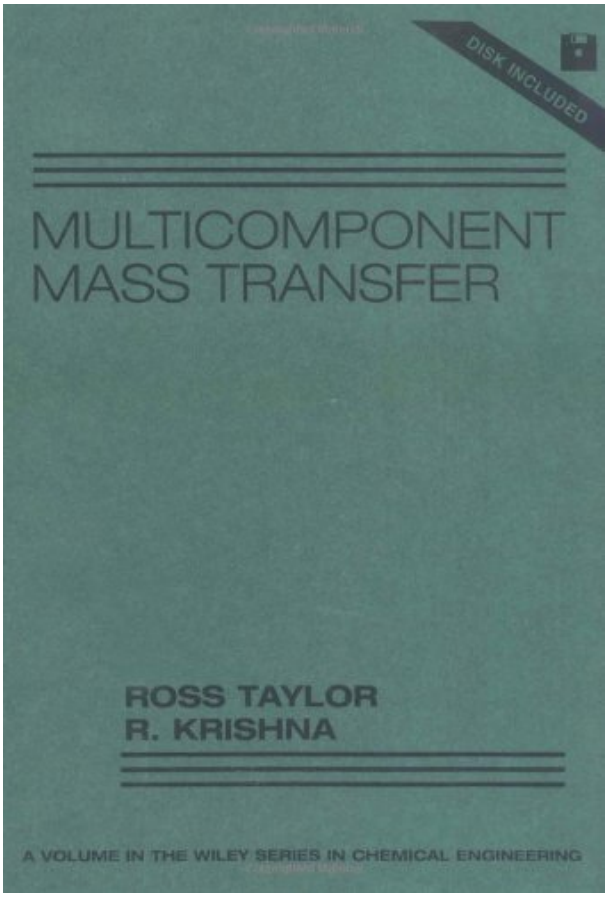
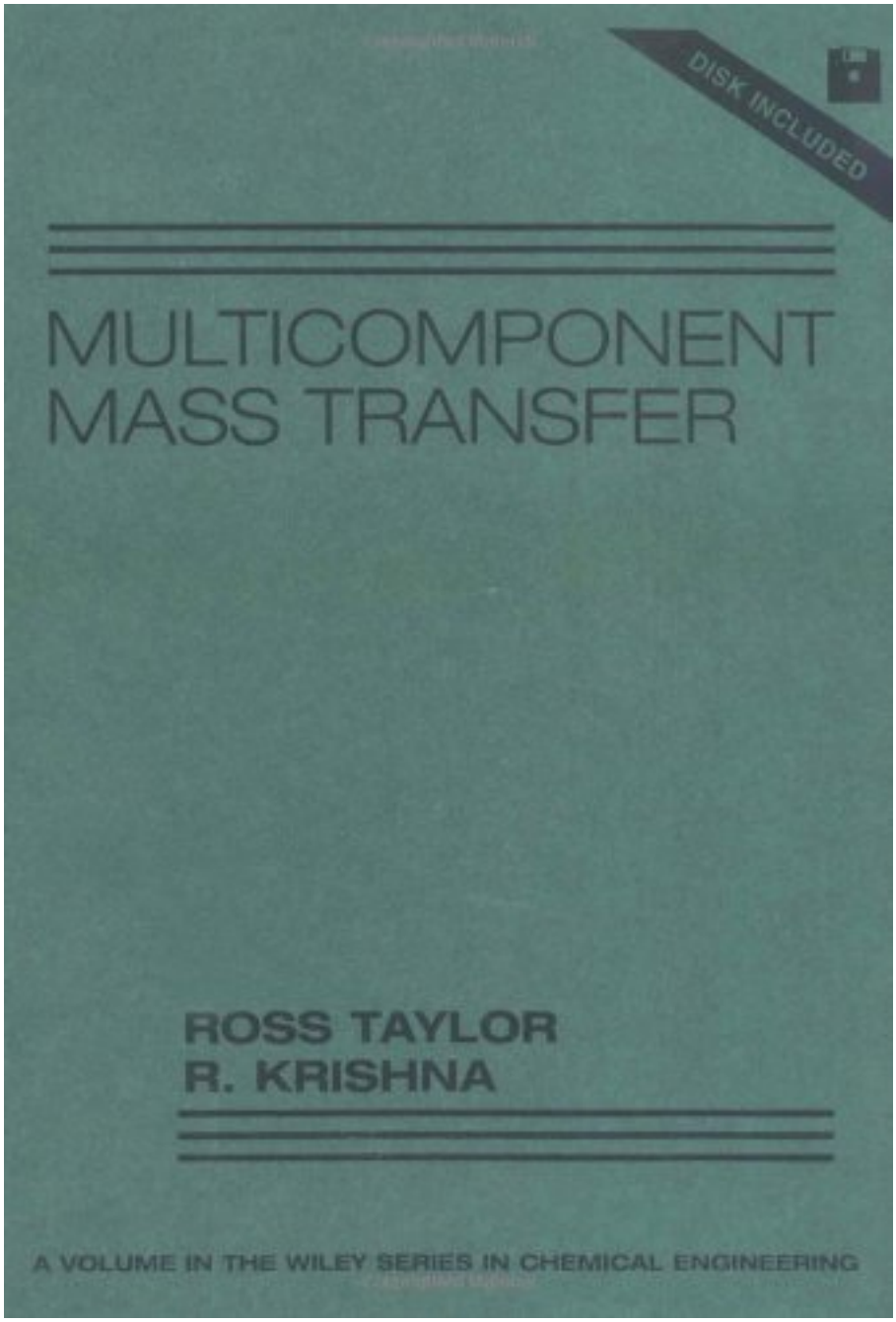
MULTICOMPONENT MASS TRANSFER BY ROSS TAYLOR, R. KRISHNA





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Addresses the use of rigorous multicomponent mass transfer models for the simulation and design of process equipment. Deals with the basic equations of diffusion in multicomponent systems. Describes various models and estimations of rates of mass and energy transfer. Covers applications of multicomponent mass transfer models to process design. Includes appendices providing necessary mathematical background. Contains a large number of numerical examples worked out in detail.

From the Back Cover
Divided into three parts, Part I of Multicomponent Mass Transfer offers a detailed overview of the basic equations of diffusion in multicomponent systems. Chapters cover continuing relations for mass, momentum, and energy; mass transfer fluxes and reference velocity frames; Maxwell-Stefan relations; diffusion in electrolyte systems; Fick's law for binary mixtures and multicomponent systems; irreversible thermodynamics; procedures for estimating diffusion coefficients in multicomponent mixtures; and methods for solution of multicomponent diffusion programs. Part II describes known models of mass and energy transfer. Multicomponent mass transfer coefficients are defined and the multicomponent film model developed. The unsteady state of diffusion models is examined as are models based on turbulent eddy diffusion. Finally, the book tackles the additional complication of simultaneous mass and energy transfer. In Part III the authors cover the various applications of multicomponent mass transfer models to process design. Readers examine models of mass transfer on distillation trays and use the information to develop procedures for the estimation of point and tray efficiencies in multicomponent distillation and in the simulation and design of distillation of absorption columns. The final chapters in Part III considers the design of mixed vapor condensers.

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A new way of looking into mass transfer
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The book starts by deriving the Maxwell-Stefan equations, the correct framwork to deal with multicomponent mass transfer problems and comparing it with the more traditional approaches to multicomponent mass transfer. Some chapters on estimation of diffusivities and mass transfer coefficients follow. In the second part, the book jumps into interphase mass transfer, where the theory is fully applied to derive "working equations". These chapters treat in a unified way all the problems that previously requieres empricial, approximate or separate treatments. The chapter on simultaneous heat and mass transfer is particularly good.
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This is a book useful for advanced students, scientists and engineers who want to go a step further in their understanding of the physical principles behind mass transfer. The book is very balanced between theory and application and provides the basis for extending the theory to any mass transfer problem ever imagined. The book is very concise, and always thinks about the usefulness of the theory, there are no useless things here. It comes with a disk with the problems solved in MathCad, something that proves very handy.
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