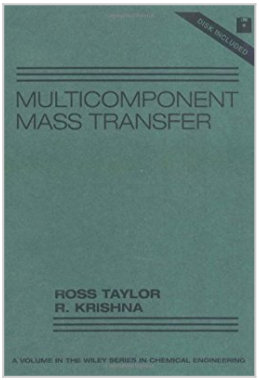

Multicomponent Mass Transfer

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.

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Multicomponent Mass Transfer By Ross Taylor, R. Krishna Bibliography

- Sales Rank: #2205999 in Books
- Published on: 1993-10-01
- Original language: English
- Number of items: 1
- Dimensions: 10.30" h x 1.45" w x 7.20" l, 2.69 pounds
- Binding: Hardcover
- 616 pages

Editorial Review

From the Publisher
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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.

Users Review

From reader reviews:

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