



# Principles and Modern Applications of Mass Transfer Operations

*By Jaime Benitez*

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## **Principles and Modern Applications of Mass Transfer Operations** By Jaime Benitez

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 questions 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®, 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.

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### **Review**

"...a traditional treatment of a classic chemical engineering subject...students will like..." (*AIChE Journal*, January 2003)

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A complete, contemporary account of mass transfer operations at the undergraduate level

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### **About the Author**

JAIME BENITEZ, PhD, has been teaching mass transfer operations for chemical engineers for twenty-five years. He earned his PhD in environmental engineering at Rensselaer Polytechnic Institute in 1976 and is currently Professor in the Chemical Engineering Department at the University of Puerto Rico at Mayagüez. He is also the author of Process Engineering and Design for Air Pollution Control.

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