

AICHE JOURNAL

APRIL 1985 • VOL. 31, NO. 4

The AIChE JOURNAL, a monthly publication of the American Institute of Chemical Engineers, is devoted to fundamental research and developments having immediate or potential value in chemical engineering.

PUBLISHER

J. C. Forman

PUBLICATIONS DIRECTOR

Diane Foster

MANAGER OF EDITORIAL and TECHNICAL SERVICES

Agnes K. Dubberly

EDITOR

Robert H. Kadlec

MANAGING EDITOR

Haeja L. Han

EDITORIAL ASSISTANTS

Michelle Kiernan
Karen M. Simpson

EDITORIAL BOARD

Alan J. Brainard
Coleman B. Brosilow
E. L. Cussler
Thomas F. Edgar
Joseph D. Henry, Jr.
Robert L. Kabel
Ronald W. Rousseau
Roger A. Schmitz
John C. Slattery
Kenneth E. Starling
William B. Streett
Charles B. Weinberger

AIChE Journal (ISSN 0001-1541) is published monthly by the American Institute of Chemical Engineers, 345 E. 47th St., New York, NY 10017. Manuscripts should be submitted to Robert H. Kadlec, Editorial Offices, Dept. of Chemical Engineering, Dow Building, The University of Michigan, Ann Arbor, MI 48109. The statements and opinions in the AIChE Journal are those of the contributors, and AIChE assumes no responsibility for them. Annual subscription rates: \$250 for nonmembers, \$40 for members; outside U.S., add \$10 for postage. Single copies: \$25; outside U.S., add \$2 for postage. Second-class postage paid at New York, NY and additional mailing offices. Copyright 1985 by the American Institute of Chemical Engineers. Subscribers are requested to give prompt notification of any change of address. Postmaster: Send changes of address to AIChE Journal, 345 East 47th St., New York, NY 10017.

Proceedings

FUNDAMENTALS OF ADSORPTION

Alan L. Myers and Georges Belfort, *Editors*

(*Proceedings of the Engineering Foundation Conference held at Schloss Elmau, Bavaria, West Germany, May 6-11, 1983*)

This conference was cosponsored by the American Institute of Chemical Engineers and Deutsche Vereinigung für Chemie-und Verfahrenstechnik. "The theoretical work reported at Elmau is focused on the effects of surface heterogeneity, and on the application of Monte Carlo "experiments" to unravel the complexities of intermolecular forces. The thermodynamic aspects of adsorption are developed to the point where reliable predictions of mixture equilibria can be made. More realistic models for calculating adsorber breakthrough curves are available. Several inventions described at this meeting allow bulk separations of both gas and liquid mixtures in fixed beds. These factors have contributed to the rapid increase in research and development devoted to adsorption." *From the introduction.* Contains 73 papers, author index, and subject index.

(ISBN 0-8169-0265-8 LC84-80753)

Pub. #P-39

788 pp.

Hardcover.

AIChE Members: \$45

Others: \$60

Reproducing copies

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by AIChE for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the \$2.00 per copy fee is paid directly to CCC, 21 Congress St., Salem, MA 01970. This consent does not extend to copying for general distribution, for advertising or promotional purposes, for inclusion in a publication, or for resale. Articles published before 1978 are subject to the same copyright conditions and the fee for each article is \$2.00.

AIChE Journal fee code: 0001-1541/85 \$2.00