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New Proceedings

Proceedings of the Second Engineering Foundation Conference on Fundamentals of Adsorption

Athanasios I. Liapis, Editor

This conference was held in Santa Barbara, California on May 4-9, 1986, providing a forum for chemical engineers, chemists, biochemical engineers, biochemists and environmental engineers. The research papers presented here include coverage of: mixture equilibria; new experimental techniques for measuring adsorption equilibria; effects of pore structure; effects of surface heterogeneity; more realistic models for predicting the dynamic behavior of adsorbers; Monte Carlo computer simulations to unravel the complexities of intermolecular forces and analyze the phenomena of critical behavior and hysteresis in adsorption isotherms; statistical mechanical studies to understand adsorption of simple monatomic fluids on well defined surfaces; studies on dispersion interactions; and novel adsorbents and adsorption processes. In addition, the new field of biospecific adsorption (affinity chromatography) was considered in three presentations concerned with the design of adsorbents for biopolymer separation and the modeling and analysis of biospecific adsorption.

1987 668 pp. Hardcover ISBN 0-8169-0398-0 LC87-80044
Pub P-48 AIChE Members \$40 Others \$60

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345 East 47 Street, New York, NY 10017.

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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 Editor Morton M. Denn, at the Dept. of Chemical Engineering, University of California, Berkeley, CA 94720, Phone (415) 643-6591. The statements and opinions in the *AIChE Journal* are those of the contributors, and AIChE assumes no responsibility for them. Annual subscription rates: \$275 for nonmembers, \$40 for members; outside U.S., add \$13 for postage. Single copies: \$30; outside U.S., add \$2 for postage. Second-class postage paid at New York, NY and additional mailing offices. Copyright 1988 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.

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