

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

PUBLISHER

F. J. Van Antwerpen

EDITOR

Robert C. Reid

MANAGING EDITOR

Sylvia Fourdrinier

MANUSCRIPT EDITOR

Elizabeth Bond

EDITORIAL BOARD

Andreas Acrivos
Richard R. Bannister
Elisabeth M. Drake
Charles A. Eckert
James R. Fair
George R. Gavallas
Leon Lapidus
Dan Luss
William H. Manogue
Arthur B. Metzner
John M. Prausnitz
Dale F. Rudd

Publication Office, 215 Canal street, Manchester, New Hampshire. Published in January, March, May, July, September, and November by the American Institute of Chemical Engineers, 345 East 47 Street, New York, New York 10017. All manuscripts should be submitted only to R. C. Reid, Massachusetts Institute of Technology, Room 12-190, Cambridge, Mass. 02139. Statements and opinions in the *AIChE Journal* are those of the contributors, and the American Institute of Chemical Engineers assumes no responsibility for them. Subscription: one year, \$50; special member rate, \$8; additional yearly postage, Canada \$4.00, Pan American Union \$4.00, other foreign \$4.00 (foreign subscriptions payable in advance). Single copies: \$15.00. Single copies more than one year old: \$16.00. Second-class postage paid at New York, N. Y. and additional mailing offices. Copyright 1974 by the American Institute of Chemical Engineers. National headquarters of AIChE is concerned about nondelivery of copies of the *AIChE Journal* and urgently requests subscribers to give prompt notification of any change of address. Sixty days must be allowed for changes to be made in the records.

Postmaster: Please send form 3579 to *AIChE Journal*, 345 East 47 Street, New York, N. Y. 10017.

AIChE Monograph and Symposium Series

Recent fundamental studies:

138 Heat Transfer—Research and Design, edited by Dimitri Gidaspow, Institute of Gas Technology.

Papers concerning combustion, two-phase flow, boiling thermal discharges, direct contact transfer, condensers, heat exchangers, etc.

AIChE members \$6; nonmembers \$15.

134 Gas Purification by Adsorption, edited by Imre Zwiebel, Worcester Polytechnic Institute; D. B. Broughton, Universal Oil Products; and D. T. Camp, Durham, North Carolina.

Research and development reports, including a review of the state of the art of the oxygen enrichment of gas from air.

AIChE members \$6; nonmembers \$15.

130 Drag Reduction in Polymer Solutions, edited by Nicholas D. Sylvester, University of Tulsa.

Work in progress on steady and pulsed flow, transient and shear effects, random velocity studies, dilute polysolutions in capillary tubes, etc.

AIChE members \$5; nonmembers \$15.

128 Fluidized Bed Fundamentals and Applications, edited by D. L. Kearns, Westinghouse Electric Corporation, et al.

Maximum stable bubble sizes, slug flow, a model for predicting solids exchange coefficients, etc.

AIChE members \$5.50; nonmembers \$15.

121 Crystallization from Solution: Nucleation Phenomena in Growing Crystal Systems, edited by Joseph Estrin, Clarkson College of Technology.

Possible growth mechanisms of secondary nuclei considered through discussion on breeding, desupersaturation, and crystallization and of the factors affecting contact nucleation.

AIChE members \$5.00; nonmembers \$15.00.

Order from

American Institute of Chemical Engineers
345 East 47 Street
New York, New York 10017

Also available: Standing orders for members. Each book in the two series is mailed on publication and billed at a discount of 10 percent.

ASK FOR THE AIChE PUBLICATIONS CATALOG