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(AIChE Symposium Series Volume 83, No. 258)

These selected papers from AIChE Meetings in Anaheim, Houston, Seattle, New Orleans and Miami (1984-1986) emphasize processing and manufacturing.

CONTENTS

Chemical Vapor Deposition: Preform Fabrication. Review of Chemistry and Mechanisms of Deposition for Optical Waveguide. Fabrication by Vapor-Phase Deposition from a Combustion Flame. Environmental Aspects of the MCVD Process. Modal Calculations for Optical Fibers and their Impact on Processing. Use of Heat Transfer Analyses in the Manufacture of Large Preforms by the MCVD Process. Optical Fiber Drawing and Coating. Polymer Coatings for Lightguide Fibers. Heat Transfer Aspects of Silica Lightguide Fiber Drawing and Coating. Recent Advances in Fiber Drawing and Coating Technology. Temperature Dependence of Optical Fiber Coatings for Single-Mode Fiber. High Strength Hermetically Coated Optical Fibers. New Technology in the CPL: Fiber Optic Sensors. Sensor Technology: Fiber Optics.

1987 67 pp ISBN 0-8169-0418-9 LC87-17495

Pub S-258

AIChE Members \$15 Others \$30

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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