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Fiber Optics Engineering: Processing and Applications

Thomas O. Mensah & Pundi L. Narasimham, Editors
(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 CPI: Fiber Optic Sensors. Sensor Technology: Fiber Optics.

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