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Books Received

STRUCTURE-PROPERTY RELATIONSHIPS IN POLYMERS.
Raymond B. Seymour and Charles E. Carraher. Plenum Press, New York and London, 1984, 232 pp. (US\$22.50).

This book contains 16 chapters covering the following subjects:

1. Chemical Structure of Polymers
 2. Physical Structure of Polymers
 3. Tests for Properties of Polymers
 4. Optical Properties of Polymers
 5. Mechanical Properties of Polymers
 6. Electric Properties of Polymers
 7. Thermal Properties of Polymers
 8. Solubility
 9. Diffusion and Permeation of Gas and Vapors in Polymers
 10. Chemical Resistance of Polymers
 11. Effect of Additives on Polymers
 12. Properties of Polyolefins
 13. Polymeric Hydrocarbons with Pendant Groups
 14. Aliphatic Polymers with Heteroatom Chains
 15. High-Performance Polymers
 16. Selection of Polymers for Special Applications
- Appendix: Acronyms and Abbreviations
Index

ADHESIVE JOINTS, edited by K. L. Mittal. Plenum Press, New York and London, 1984, 931 pp. (US\$125.00).

This book consists of the papers presented at the International Symposium on "Adhesive Joints: Formation, Characteristics and Testing" sponsored by the Division of Polymeric Materials: Science and Engineering of the American Chemical Society at its meeting in Kansas City, MO, U.S.A., September 1982.

Papers fall under the following headings:

1. Substrate and Interfacial Aspects
 2. Factors Influencing Behavior of Adhesive Joints
 3. Evaluation and Characterization
 4. Durability or Stability Aspects
 5. Stress Analysis and Performance Aspects
 6. Fracture Aspects
- About the Contributors
Index

POLYMER BLENDS. Processing, Morphology, and Properties—Volume 2, edited by M. Kryszewski, A. Galeski and E. Martuscelli. Plenum Press, New York and London, 1984, 287 pp. (US\$52.50).

This volume presents the papers given at the Second Joint Polish-Italian Seminar on Multicomponent Polymer Systems, held September 7-12, 1982, in Lodz, Poland.

A sampling of topics covered is given below:

Recent Advances in Interpenetrating Polymer Networks
Adhesion Between Polymers
Compatibility of PVC—Polymethacrylate Systems
Electrical Properties of Polypropylene—Polycarbonate Blends
A Mechanical Study of Polyethylene—Glass Beads Adhesion
Composite Membranes Containing Liquid Crystals—Some
Thermal and Mechanical Properties
Author Index
Subject Index

CONTEMPORARY TOPICS IN POLYMER SCIENCE—Volume 5, edited by E. J. Vandenberg. Plenum Press, New York and London, 1984, 458 pp. (US\$75.00).

This volume includes papers from the Eleventh Biennial Polymer Symposium of the Division of Polymer Chemistry of the American Chemical Society. The Symposium, held November 20-24, 1982 in Dorado Beach, Puerto Rico, and entitled, "High Performance Polymers", honored Professor Herman F. Mark on his receipt of the Fourth Division of Polymer Chemistry Award.

A selection of titles follows:

The Early Days of Polymer Science (Professor Mark)
Polymer Carbon—The Start into a New Age of Polymer Application
Recent Developments in the Science and Technology of Ultra-High
Modulus Polyolefins
New Developments in High Temperature and High Strength
Polyquinolines
Reflections on the Design, the Structure and the Properties of Highly
Conducting Polymers as Related to Other Organic Metals
Some Recent Aspect of Polymer Flammability
Author Index
Subject Index

ALTERNATING COPOLYMERS, edited by J. M. G. Cowie. Plenum
Press, New York and London, 1985, 281 pp. (US\$47.50).

This volume is one of a series entitled *Speciality Polymers*. It consists
of six chapters written by a number of experts. The chapter titles follow:

1. Principles of Alternating Copolymerization
 2. Radical Initiated Alternating Copolymerization
 3. Alternating Copolymerization in the Presence of Lewis Acids
 4. Alternating Copolymerization of Olefins and Diolefins
 5. Alternating Copolymerization Involving Zwitterions
 6. Physical Properties of Alternating Copolymers
- Index

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