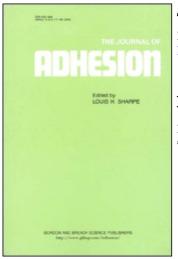
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A Review of: "Macromolecules. 2. Hans-Georg Elias. Plenum Press, New York, 1984. 860 pp. U.S. \$95.00" F. A. Bovey<sup>a</sup>; L. W. Jelinski<sup>a</sup>

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## **Book Review**

MACROMOLECULES. 2. Hans-Georg Elias. Plenum Press, New York, 1984. 860 pp. U.S. \$95.00.

Much enlarged over the 1977 version, this second edition is a required reference book for professionals in polymer science. Macromolecules. 2 deals with synthesis, materials, and technological uses of polymers, whereas the companion volume, Macromolecules. 1, covers the structure and properties of polymers.

The synthesis section in Macromolecules. 2 is particularly complete. Separate chapters are devoted to kinetics and statistics, polycondensations, ionic and free radical polymerizations, polyinsertions, copolymerizaton, radiation-activated polymerization, and chemical reactions that occur during and after polymerization. Each chapter is followed by a list of leading references.

The second section of the book, which describes polymeric materials, covers carbon-carbon, carbon-oxygen, carbon-sulfur, and carbonnitrogen chains. Biopolymers and inorganic materials are discussed in an introductory manner.

The third part of the book, technology, is completely new. In a full 180 pages, all industrially important polymeric materials and processes are covered, ranging from plasticizers to thermosets to adhesives and coatings. Each chapter is followed by a complete set of references.

This second edition is not merely a rewrite of the first volume. Much new material has been added and the book is reorganized. There are a substantially greater number of new references, although many are somewhat dated.

The index is good and complete and simultaneously covers Macromolecules .1 and .2. Cross-referencing between the chapters is excellent. The Appendix contains many handy tables, including a chart of SI units and conversion factors. Unfortunately, the very useful table

## BOOK REVIEW

linking trivial and trade names with manufacturers (Table A2 in the first edition) has been dropped from this edition.

Offering a broad but comprehensive survey of the field of macromolecular science, Macromolecules .1 and .2 would be welcome additions to the personal libraries of academic and industrial polymer chemists, alike.

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