



Handbook of Polymer Synthesis, Characterization, and Processing

By Enrique Saldivar-Guerra, Eduardo Vivaldo-Lima



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Covering a broad range of polymer science topics, *Handbook of Polymer Synthesis, Characterization, and Processing* provides polymer industry professionals and researchers in polymer science and technology with a single, comprehensive handbook summarizing all aspects involved in the polymer production chain. The handbook focuses on industrially important polymers, analytical techniques, and formulation methods, with chapters covering step-growth, radical, and co-polymerization, crosslinking and grafting, reaction engineering, advanced technology applications, including conjugated, dendritic, and nanomaterial polymers and emulsions, and characterization methods, including spectroscopy, light scattering, and microscopy.



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Editorial Review

Review

“In summary, Handbook of Polymer Synthesis, Characterization and Processing is a valuable reference work for everyone working in the area of polymer science and technology, and for advanced students who wish to get a good insight into specific aspects of this field.” (*Angew. Chem. Int. Ed.*, 1 February 2014)

From the Back Cover

An introduction and gateway to the entire polymer production chain

Exploring every stage of the polymer production chain, *Handbook of Polymer Synthesis, Characterization, and Processing* serves as a gateway and comprehensive reference to the polymer industry. Chapters have been authored by leading scientists and researchers working in all facets of polymer science and technology. Their contributions are based on a thorough review of the current literature as well as their own firsthand research and industrial experience.

Handbook of Polymer Synthesis, Characterization, and Processing begins with an introduction to the basic concepts of polymers and polymerization as well as thermodynamic polymer states. Next, the book covers:

- Polymer synthesis, copolymers, and additives
- Engineering principles and polymerization processes, including the latest processing trends
- Techniques for polymer characterization and testing
- Polymer processing principles, techniques, and equipment
- Polymers for advanced technologies, including nanomaterials, dendrimers, and conjugated polymers

Chapters have been carefully edited to ensure a consistent, uniform approach throughout the book. Within each chapter, readers will find a clear summary of basic concepts and fundamentals, review of the literature and recent trends, and discussion of current and emerging problems in the field. There is also an extensive list of references at the end of each chapter to facilitate further research into all aspects of the polymer production chain.

Handbook of Polymer Synthesis, Characterization, and Processing is ideal for both students and professionals interested in a broad range of activities in the polymer industry, including manufacturing, quality control, sales, and research and development.

About the Author

ENRIQUE SALDÍVAR-GUERRA is Senior Scientist and Head of the Polymerization Processes Department at the Center for Research on Applied Chemistry in Mexico. Formerly the president of the Mexican Polymer Society, he holds five patents and serves as a reviewer for the *Journal of Applied Polymer Science, Industrial & Engineering Chemistry Research*, and *Macromolecular Theory and Simulations*, among others.

EDUARDO VIVALDO-LIMA is Professor in the Department of Chemical Engineering of the Faculty of

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