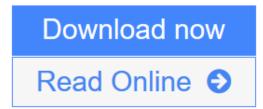


# Experimental Methods in Polymer Science: Modern Methods in Polymer Research and Technology (Polymers, Interfaces and Biomaterials)

Toyoichi Tanaka



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#### **Experimental Methods in Polymer Science: Modern Methods in Polymer Research and Technology** (**Polymers, Interfaces and Biomaterials**) Toyoichi Tanaka

Successful characterization of polymer systems is one of the most important objectives of today's experimental research of polymers. Considering the tremendous scientific, technological, and economic importance of polymeric materials, not only for today's applications but for the industry of the 21st century, it is impossible to overestimate the usefulness of experimental techniques in this field. Since the chemical, pharmaceutical, medical, and agricultural industries, as well as many others, depend on this progress to an enormous degree, it is critical to be as efficient, precise, and cost-effective in our empirical understanding of the performance of polymer systems as possible. This presupposes our proficiency with, and understanding of, the most widely used experimental methods and techniques.

This book is designed to fulfill the requirements of scientists and engineers who wish to be able to carry out experimental research in polymers using modern methods. Each chapter describes the principle of the respective method, as well as the detailed procedures of experiments with examples of actual applications. Thus, readers will be able to apply the concepts as described in the book to their own experiments.

\* Addresses the most important practical techniques for experimental research in the growing field of polymer science

\* The first well-documented presentation of the experimental methods in one consolidated source

- \* Covers principles, practical techniques, and actual examples
- \* Can be used as a handbook or lab manual for both students and researchers
- \* Presents ideas and methods from an international perspective
- \*Techniques addressed in this volume include:

\*subbul:\* Light Scattering

- \* Neutron Scattering and X-Ray Scattering
- \* Fluorescence Spectroscopy
- \* NMR on Polymers
- \* Rheology
- \* Gel Experiments

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