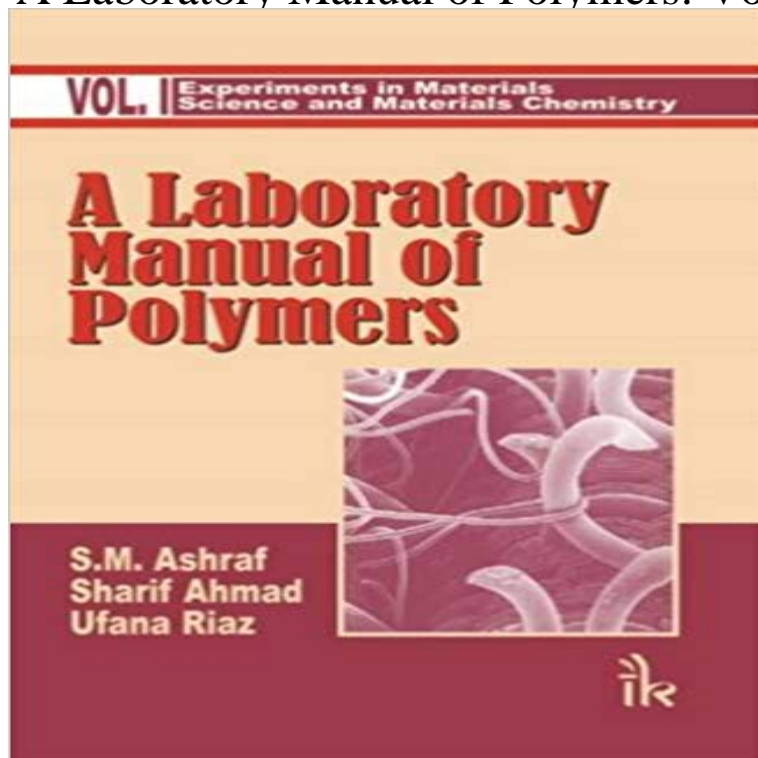


A Laboratory Manual of Polymers: Volume I , Second Edition



A Laboratory Manual of Polymers provides meaningful, easy-to-do laboratory activities that will help students in understanding the basic principles of polymer synthesis, structure and functions. It is intended to enable the students prepare a variety of common polymers to investigate their properties as well as to discover their uses and applications. This book is intended to be used as a laboratory manual at the graduate and postgraduate levels in Materials Science as well as any polymer chemistry course. The book, divided in 4 main chapters, deals with:

- Different kinds of polymerization reactions as well as their kinetic aspects.
- Detailed spectral, thermal and morphological characterization of polymers.
- Identification of polymers with FT-IR, $^1\text{H-NMR}$, $^{13}\text{C-NMR}$ spectroscopies.
- Thermal characterization of polymers through DSC and TGA techniques.
- Structural characterization with XRD.
- Purification procedures of monomers and solvents.
- 26 experiments and general analytical techniques to characterize common polymers.

The book will be useful to professionals in the production as well as R&D units of polymer industries.

Contents:

- Introduction and Polymerization Reactions
- Characterization of Polymers
- Purification of Monomers and Polymers
- Experiments and Characterization
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