



Thermal Characterization of Polymeric Materials

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Thermal Characterization of Polymeric Materials

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Thermal Characterization of Polymeric Materials is a critical review and a concise evaluation of the application of thermal analysis in polymer science and engineering. This book is divided into nine chapters that specifically tackle the instrumentation, theory, and a wide variety of applications of thermal characterization.

The introductory chapters provide an overview of all aspects of thermal analytical methods and apparatus and the theory underlying the basic principles of thermal analysis. These chapters also examine the theories and functions of state for thermometry, dilatometry, thermomechanical analysis, calorimetry, thermogravimetry. These topics are followed by a discussion on single-component and multicomponent systems and their phase transitions, as influenced by concentration, pressure, deformation, molecular weight, and copolymerization. The subsequent chapters explore the influence of important chemical and physical parameters on the glass transition, crystallization, and melting of thermoplastic materials. The discussion then shifts to the theoretical aspects of polymer-polymer compatibility, phase separation, and miscibility in mixed polymer systems. This book further considers the thermal analysis in thermosets, elastomers, and fibers. The concluding chapters present the methods of obtaining information on the relative flammability properties of polymers, for screening fire retardant additives, and for studying the mechanism of flame inhibition. These chapters also look into the thermal analysis of antioxidants, stabilizers, lubricants, plasticizers, impact modifiers, and fire retardants.

Polymer scientists and researchers will find this book invaluable.

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