



Fractal Mechanics of Polymers: Chemistry and Physics of Complex Polymeric Materials

G. V. Kozlov, Yu G. Yanovskii

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This new book explores the consideration of relationships that connect the structural and basic mechanical properties of polymeric mediums within the frameworks of fractal analysis with cluster model representations attraction. Incidentally, the choice of any structural model of medium or their combinations is defined by expediency and further usage convenience only. This book presents leading-edge research in this rapidly changing and evolving field.

The book presents descriptions of the main reactions of high-molecular substances within the frameworks of fractal analysis and irreversible aggregation models. Synergetics and percolation theory were also used. In spite of the enormous number of papers dealing with the influence of the medium on the rate of chemical reactions (including synthesis of polymers), no strict quantitative theory capable of "universal" application has been put forward up until now. It is now possible to describe the relationship between the reaction rate constants and the equilibrium constants with the nature of the medium in which the reactions take place by means of a single equation. This important book for the first time gives structural and physical grounds of polymers synthesis and curing, and the fractal analysis is used for this purpose.

This new book:

- Highlights some important areas of current interest in polymer products and chemical processes
- Focuses on topics with more advanced methods
- Emphasizes precise mathematical development and actual experimental details
- Analyzes theories to formulate and prove the physicochemical principles
- Provides an up-to-date and thorough exposition of the present state of the art of complex polymeric materials

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