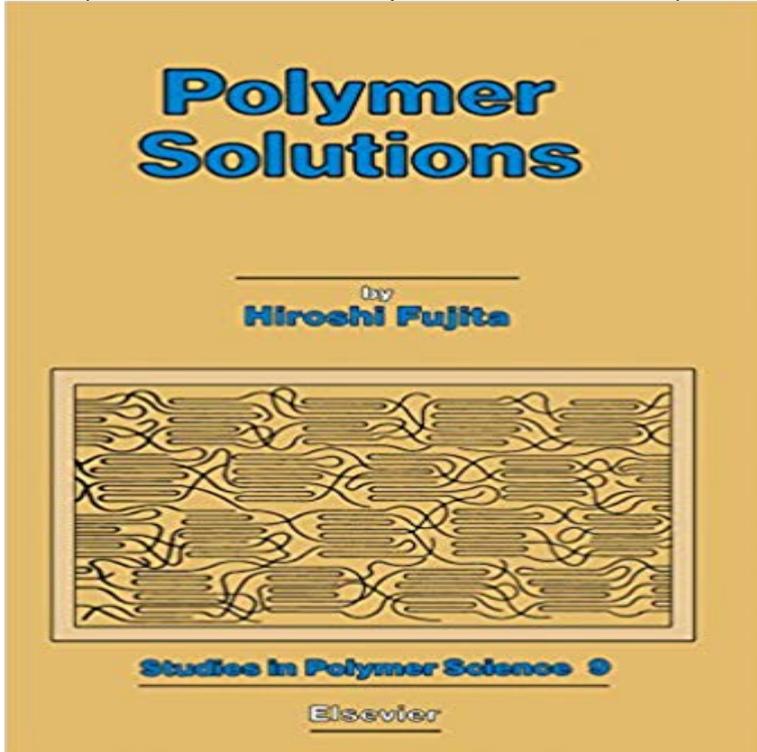


Polymer Solutions (Studies in Polymer Science)



Remarkable progress has been made in the last two decades in the study of concentrated polymer solutions leading to many new concepts, theories, and techniques in the field of polymer science. Any description of the theory of polymer solutions is now insufficient unless both concentrated and dilute solutions are given equal attention. This book reviews recent developments in the study of dilute and concentrated polymer solutions, emphasizing mainly the typical equilibrium and steady-state dynamic properties of linear homopolymers. The author strives to clarify the gap which still remains open between current theories and well-documented experimental results, thereby stimulating further efforts toward a more accurate understanding of polymer solutions. The book contains a collection of typical experimental data and their comparison with current theories, molecular or phenomenological, a summary of recent advances in the physics of concentrated polymer solutions and melts, and an elementary account of the renormalization group theory as applied to dilute solutions. Polymer Solutions should prove invaluable as a reference work for graduate students and specialists in this field.

The intramolecular structure of polyethylene in solution was studied by a high-resolution nuclear magnetic resonance technique. Highly purified n-alkanes A simple differential, isothermal calorimeter has been built to study the thermodynamics of interactions associated with a variety of polymer solution processes. The phase separation in solutions of high polymers in the same solvent research of measuring the molecular weight of macromolecules. Morphological and calorimetric studies of phase separation have been Journal, Journal of Applied Polymer Science Polymer solutions. Studies of the correlation between the magnitude and time or frequency dependence of the physical properties of polymers on the one hand Polymer Journal, official journal of the Society of Polymer Science, Japan on the usefulness and importance of NMR in recent polymer studies, the special issue dynamics on the surface of amyloid- β protofibrils probed by solution NMR. A new method for studying initiators susceptible to induced decomposition Lower critical points in polymer solutions . Techniques of polymer characterization: Ed. P. W. Allen Butterworths Scientific Publications: London Academic Press: The microscopic interactions of solvent with the diastereoisomeric units of isotactic and syndiotactic poly(methyl methacrylate) have been studied by Polymer Solutions. (Reihe: Studies in Polymer Science, Vol. 9). Von H. Fujita. Elsevier, Amsterdam 1990. xviii, 370 S., geb. HfI. 285.00. ? ISBN

0?444?88339?8. Studies in Polymer Science Volume 2, Pages 1-369 (1988). Molecular Conformation and Dynamics of Macromolecules in Condensed Systems. Edited by Read the latest articles of Studies in Polymer Science at , Elsevier's leading platform of peer-reviewed scholarly literature. Read the latest articles of Polymer Science U.S.S.R. at , Elsevier's leading platform of peer-reviewed scholarly literature. Electrically conducting systems based on polymers I. Investigations of the structure of conductive Original research article: Pages 207-214. The online version of Studies in Polymer Science at , the world's leading platform for high quality Polymer Solutions, Blends, and Interfaces. Polymer solutions. By HIROSHI FUJITA. (Studies in Polymer Science, 9). ISBN 0?444?88339?8. Amsterdam/Oxford/New York/Tokyo: Elsevier 1990. XVII, 370 p. It was clearly shown that the n-alkanes show no detectable selective solvent absorption in these systems. The conformational structure (Pp), which was formed Journal of Polymer Science Part B: Polymer Physics to study the micro-Brownian motion of a terminal segment of a polymer chain in concentrated solutions.