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This book offers concise information on the properties of polymeric materials, particularly those most relevant to physical chemistry and chemical physics. Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures, reinforcing phases in polymers, and experiments on single polymer chains. The study of complex materials is highly interdisciplinary, and new findings are scattered among a large selection of scientific and engineering journals. This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials.

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Editorial Review

Review

From the reviews of the second edition:

"This edition of *Physical Properties of Polymers Handbook* is a mammoth undertaking with 63 chapters divided into nine parts and 100 distinguished contributors with affiliations in industry, academia, and governmental agencies. The objectives of the book are very ambitious. ... The compilations of physical properties are very readable and, depending on one's interests, range from the mundane and practical to the esoteric. ... All in all, this is a very useful compendium and should have a place on every polymer scientist's bookshelf." (George Christopher Martin, *Journal of the American Chemical Society*, Vol. 130 (3), 2008)

"This handbook covers an enormous range of properties of polymeric materials, particularly those relevant to the areas of physical chemistry and chemical physics. ... It is a reference work for researchers or advanced students studying polymeric materials. ... The main goal of the book is to discuss and describe important results and modern developments. ... If the reader ... wishes to work in polymer applications or related areas, this is a good book to have available." (Christian Brosseau, *Optics and Photonics News*, February, 2008)

From the Back Cover

This handbook offers concise information on the properties of polymeric materials, particularly those most relevant to the areas of physical chemistry and chemical physics. In the second edition of *Physical Properties of Polymers Handbook*, each chapter has been extensively updated and revised. The number of chapters have increased from 52 to 63 to include novel polymeric structures, specifically rotaxanes and related materials, self-assembly materials, foldamer supramolecular structures, tribology, mechanical properties of single molecules, and dendrimers, as well as reinforcing phases in polymers, including carbon black, silica, clays and other layered fillers, POSS, carbon nanotubes, and reinforcement theory. The study of complex materials is highly interdisciplinary, and new findings are scattered among a large selection of scientific and engineering journals. *Physical Properties of Polymers Handbook* is a comprehensive and authoritative compilation that brings together data and supporting information from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials.

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