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Developments in Crystalline Polymers-1

By Bassett, David C.

Book Condition: New. Publisher/Verlag: Springer Netherlands | Crystalline or, more properly, semi-crystalline polymers continue to present major challenges and opportunities to scientists and technologists alike. On the one hand, scientific understanding of their structure and properties still lags behind that of other economically important, but less complicated materials. On the other hand, there remains very considerable potential for improving properties in systems designed for specific purposes. Ways are only just being found of transferring inherent molecular properties (such as high modulus) to the macromolecular solid. Beyond these are many possibilities of manipulating the organization of chemical and physical textures towards desired ends. The chapters in this volume are reports, by well-known and active researchers, on some of the important recent developments of these themes. Grubb begins with the fundamental and central problem of determining polymeric microstructure. Polymers suffer by comparison with other materials in that it has not generally been possible to exploit the high resolution of the electron microscope to determine their microstructure in adequate detail. However, recently, ways have been found of studying representative lamellar textures in melt-crystallized polymers. When fully exploited these must add greatly to our detailed knowledge and provide a firmer fundamental base for future...



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