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Block Copolymer Investigations

By Nataliya Yufa

VDM Verlag Dr. Müller E.K. Okt 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x5 mm. Neuware - Invented around the time of World War II, copolymers have been used for decades due to their macroscopic properties, such as their ability to be molded without vulcanization, and the fact that they can be recycled. In recent years, block copolymers have been used for lithography, as scaffolds for nano-objects, to create a magnetic hard drive, as well as in photonic and photovoltaic applications. The research presented in this book deals with various aspects of block copolymers on the nanoscale: their behavior at a range of temperatures, their use as scaffolds, or for creation of chemically striped surfaces, as well as the behavior of metals on block copolymers under the influence of UV light, and the healing behavior of copolymers. The techniques used in creating and analyzing the samples are discussed in detail. 80 pp. Englisch.



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