



Inorganic-Whisker-Reinforced Polymer Composites: Synthesis, Properties and Applications

Qiuju Sun, Wu Li

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Inorganic-Whisker-Reinforced Polymer Composites: Synthesis, Properties and Applications gives a comprehensive presentation of inorganic microcrystalline fibers, or whiskers, a polymer composite filler. It covers whisker synthesis, surface modification, applications for reinforcing polymer-matrix composites, and analysis of resulting filled polymer composites. It focuses on calcium carbonate whiskers as a primary case study, introducing surface treatment methods for calcium carbonate whiskers and factors that influence them.

Along with calcium carbonate, the book discusses potassium titanate and aluminum borate whiskers, which also comprise the new generation of inorganic whiskers. According to research results, composites filled by inorganic whiskers show improved strength, wear-resistance, thermal conductivity, and antistatic properties. It explains the importance of modifying polymer materials for use with inorganic whiskers and describes preparation and evaluation methods of polymers filled with inorganic whiskers.

The book also considers possible challenges and solutions in synthesis and applications of polymers filled with inorganic whiskers. It summarizes the latest practices and research progress in China and elsewhere. With much of its information being new outside of China, **Inorganic-Whisker-Reinforced Polymer Composites** calls attention to the excellent promise displayed by applications of inorganic whiskers. They have the potential for wide and durable application and also for further development. This book demonstrates their potential and presents current and future directions in polymer science and inorganic whiskers.

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