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This was the main topic of the first joint meeting 8th European Symposium on Polymer Blends and Eurofillers 2005, showing that problems concerning ' filled polymers ' and ' polymer blends ' are often very similar and deserve attention from both scientific communities.

Fillers, Filled Polymers and Polymer Blends ...

The viscoelastic glass-to-rubber softening transition is analyzed for various cross-linked polymers reinforced with filler particles. We find that the loss modulus peak corresponding to the segmental relaxation process (glass transition) is not significantly affected by the particle surface area in carbon black-filled polybutadiene or by silane chemical coupling of poly(styrene-co-butadiene) to silica.

Influence of Particle Size and Polymer - Filler Coupling on ...

Conductive polymer composites (CPC) that comprise immiscible polymer blends and conductive fillers are novel composite materials, featuring advantages of both polymer blends and conductive fillers. ... of fillers and the electrical-conductivity of polymer blends filled with carbon-black. Polym. ... of the morphology on the electrical-properties ...

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Dielectric Properties of Polymer Composites Filled with ...

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The polymer units at the interface with the filler particles are arranged in densely packed and ordered shells

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analogous to those found near planar solid surfaces. The polymer chains, reduced in size compared to the unfilled melt, are constituted of sequences of surface segments, totally contained in the interface shell of a given particle, and of bridge segments, connecting different particles.

Monte Carlo Simulations of Polymer Melts Filled with Solid ...

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AB - Pollen has an exine shell with remarkable chemical stability, high-strength, and unique microstructures that suggest use as a biorenewable polymer filler. Pollen-filled polymers may offer potential for light-weight, high-strength materials that can displace some petroleum-derived content with a sustainable plant-based alternative.

Pollen: A novel, biorenewable filler for polymer ...

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With the increasing recognition of the importance of fillers for reinforcing and enhancing polymer properties, current research is progressing rapidly. This volume of Macromolecular Symposia presents highlights of the Eurofillers'99 conference held in Lyon, France, September 6-9, 1999. Recent research furthering our understanding of the properties and processing of fillers and their interactions with polymers was presented, along with new ideas addressing the need for filled polymers with combinations of varied properties. The possibilities presented by nanotechnology were also introduced through contributions concerning investigations into nanofillers, such as clays and whiskers, and nanocomposites.

Fillers, Filled Polymers and Polymer Blends Design and synthesis of base materials is the very first step of innovation on materials and processes, followed by the search for synergy by appropriate combinations of these materials under different forms and shapes - films, coatings, foams, Packagings, scaffolds, ... - for a large range of applications including electronics, energy, life sciences and technology, environment, etc. This was the main topic of the first joint meeting 8th European Symposium on Polymer Blends and Eurofillers 2005, organized in Bruges, Belgium, from May 9 to May 12, 2005. This joint meeting showed that problems faced in "filled polymers" and "polymer blends" domains are most often very similar to each other and therefore should deserve attention and discussion from both scientific communities. The present volume covers most of the plenary and oral contributions presented at the meeting.

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The idea of mixing single available materials into compounds to fulfill a set of desired properties is likely as old as mankind. Highly sophisticated polymer applications would simply be impossible without the enhancement of some of their properties through addition of fine mineral particles or synthetic or natural short fibers. Many filled polymers, either thermoplastics or vulcanizable rubbers, have different chemical natures but exhibit common singular properties. An understanding of why they do so is likely to be the source of promising scientific and engineering developments—and *Filled Polymers: Science and Industrial Applications* thoroughly explores the question. Based on the author's 30 years of research, engineering activities, and teaching in the field of complex polymer systems, this comprehensive survey of polymer applications illustrates their commonalities and the scientific background behind their many industrial uses. The text analyzes theoretical considerations which explain the origin of the singular properties of filled polymers, and it includes appendices which feature a selection of calculation worksheets that offer numerical illustrations of several of the theoretical considerations discussed in the book. Our understanding of polymer reinforcement remains incomplete because any progress in the field is strongly connected with either the availability of appropriate experimental and observation techniques or theoretical views about polymer-filler interactions, or both. This book presents tools—such as equations tested with familiar calculation software—to clarify these concepts and take understanding to the highest possible level.

Discussing every aspect of the fabrication, properties, and use of metal-filled polymers, this unique single-source reference covers the full range of current and potential applications -- from the insulation to the conduction level. *Metal-Filled Polymers* describes the most recent experimentation in determining the shielding effectiveness of plastics filled with metal ... compares the advantages of metal fillers over conventional nonmetallic fillers ... delineates the concept of interphase (which has recently found importance in predicting the mechanism of crack growth) ... and shows how the geometry and orientation of filler particles affect conduction, strength, and stiffness under various loading conditions. In addition, the book explains how the filler interacts with the matrix to improve composite properties ... and details the theoretical development of both mechanical and thermal properties. Encompassing the entire literature on their respective topics, contributions by eminent researchers focus on the very latest state-of-the-art data and relate findings directly to practical uses in current technology. *Metal-Filled Polymers* will prove a vital reference for plastics, materials, process, chemical, design, and mechanical engineers and managers in the plastics and metals industries. It will also be a useful resource for manufacturers of conductive composites for EMI shielding, and professional seminars and graduate-level courses in composite materials. Book jacket.

This volume contains reviews on state-of-the-art Japanese research presented in the annual Spring and Autumn meetings of the Japanese Polymer Science Society. The aim of this section is to make information on the progress of Japanese Polymer Science, and on topics of current interest to polymer scientists in Japan,

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more easily available worldwide.

The main topics of this book are fillers, their interface with polymers, composites, blends, and alloys. Treatment of the subject is fundamentally based on principles of surface phenomena, physico-chemical theory of filling, theory of adsorption, surface adhesion, etc.

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