



Thermoplastic Aromatic Polymer Composites: A Study of the Structure, Processing and Properties of Carbon Fibre Reinforced Polyetheretherketone and Related Materials

Frederic Neil Cogswell

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Thermoplastic Aromatic Polymer Composites: A Study of the Structure, Processing and Properties of Carbon Fibre Reinforced Polyetheretherketone and Related Materials deals with the field of thermoplastic composite materials through a study of carbon fiber reinforced polyetheretherketone.

The book is composed of twelve chapters. The first four chapters are an introduction and basic learning of thermoplastic composite materials. These chapters include discussions on the components of thermoplastics, product forms, and the microstructure of aromatic polymer composites. The processing and manufacturing technology, including the fundamental operations, control, and the wide implications of manufacturing the composite material, are analyzed. The service performance structure of three interactions, namely, material, design, and processing, are illustrated. The strength of thermoplastic composites is then considered through an analysis of both shear and extensions with elastic modulus, but in the case of material strength, the differences between tension and compression properties should be taken into account. The book also notes that the durability, temperature sensitivity, and environmental resistance should likewise be regarded for a structural composite to have practical value and satisfactory performance. Lastly, the text explains that the numerous applications of thermoplastic structural composites, such as in medicine, aviation, marine and space technology, automotive, and industrial machinery, are all important and a rigorous evaluation is therefore necessary. The book finally suggests that the research into the future developments in the thermoplastic structural composites and the trend toward new design strategies and processing technology are important in optimizing the composite's great potential.

Industrial researchers in the field of chemistry and polymer composites, students, and academicians interested in the design and application of polymer composites will find this book relevant.

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