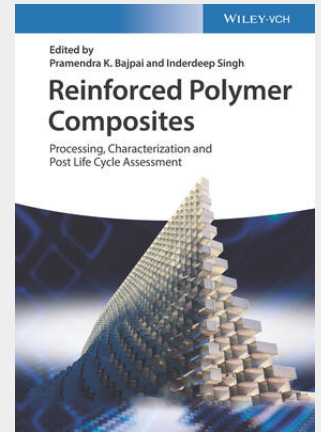


## Reinforced Polymer Composites

Processing, Characterization and Post Life Cycle Assessment

Presents state-of-the-art processing techniques and readily applicable knowledge on processing of polymer composites. The book presents the advancement in the field of reinforced polymer composites with emphasis on manufacturing techniques, including processing of different reinforced polymer composites, secondary processing of green composites, and post life cycle processing. It discusses the advantages and limitations of each processing method and the effect of processing parameters on the overall performance of the composites. Characterization and applications of reinforced polymer composites are also introduced. Reinforced Polymer Composites: Processing, Characterization and Post Life Cycle Assessment starts off by providing readers with a comprehensive overview of the field. It then introduces them to the fabrication of both short fiber/filler reinforced polymer composites and laminated reinforced polymer composites. Next, it takes them through the processing of polymer-based nanocomposites; the many advances in curing methods of reinforced polymer composites; and post life cycle processing, re-processing, and disposal mechanisms of reinforced polymer composites. Numerous other chapters cover: synthetic versus natural fiber reinforced plastics; characterization techniques of reinforced plastics; friction and wear analysis of reinforced plastics; secondary processing of reinforced plastics; and applications of reinforced plastics. -Presents the latest development in materials, processing, and characterization techniques, as well as applications of reinforced polymer composites -Guides users in choosing the best processing methods to produce polymer composites and successfully manufacture high quality products -Assists academics in sorting out basic research questions and helps those in industry manufacture products, such as marine, automotive, aerospace, and sport goods Reinforced Polymer Composites: Processing, Characterization and Post Life Cycle Assessment is an important book for materials scientists, polymer chemists, chemical engineers, process engineers, and anyone involved in the chemical or plastics technology industry.



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