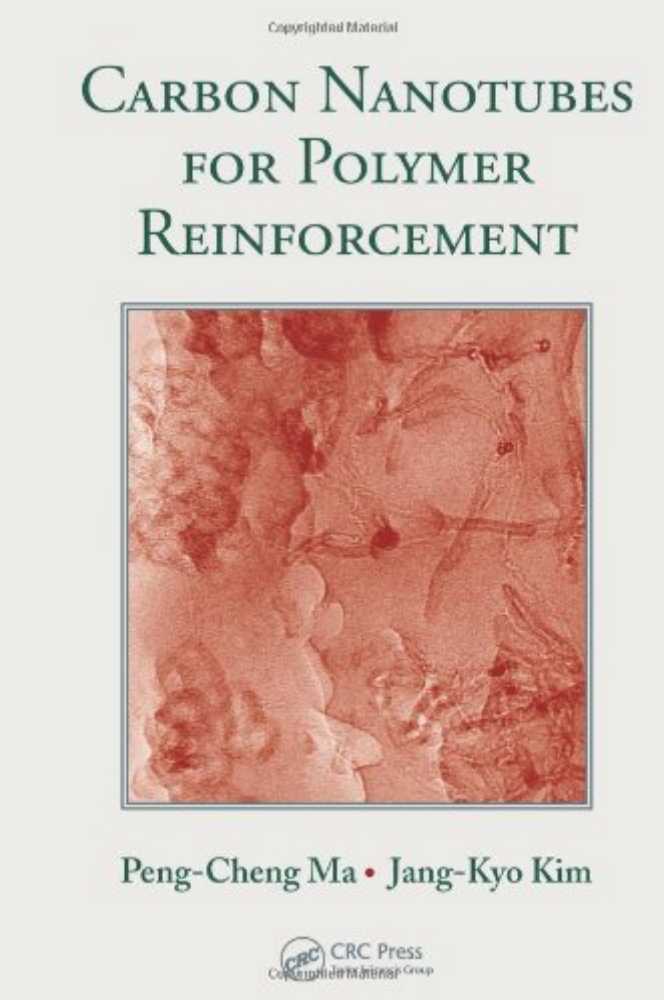
Carbon Nanotubes for Polymer Reinforcement PDF



Carbon Nanotubes for Polymer Reinforcement by Peng-Cheng Ma, Jang-Kyo Kim ISBN 1439826218

Discovered in the twentieth century, carbon nanotubes (CNT) were an integral part of science and industry by the beginning of the twenty first century, revolutionizing chemistry, physics, and materials science. More recent advances in carbon nanotube production methods have resulted in a tremendous push to incorporate CNTs into polymer matrices. Although many advances have been made, two major obstacles continue unresolved: the enhancement of interfacial adhesion between CNTs and polymer matrix, and the improvement of dispersion of CNTs in polymers.

Both substantial original contributors to the field, the authors present **Carbon Nanotubes for**

Polymer Reinforcement, the first monograph on various conventional and innovative techniques to disperse and functionalize carbon nanotubes for polymer reinforcement, elegantly explaining the basic sciences and technologies involved in those processes. Topics covered include:

- Use of CNTs in fabricating novel polymer composites
- Principles and mechanisms behind CNT dispersion and functionalization
- Methods for the functionalization and dispersion of CNTs in polymer matrices
- Effects of CNTs on functional and mechanical properties of polymer composites
- Optimization of CNT/polymer nanocomposite fabrication

Carbon Nanotubes for Polymer Reinforcement is a comprehensive treatment and critical review of the new class of polymer nanocomposites, and points to areas of future developments. Composites engineers, scientists, researchers, and students will find the basic knowledge and technical results contained herein informative and useful references for their work, whether for advanced research or for design and manufacture of such composites.

Carbon Nanotubes for Polymer Reinforcement Review

This Carbon Nanotubes for Polymer Reinforcement book is not really ordinary book, you have it then the world is in your hands. The benefit you get by reading this book is actually information inside this reserve incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This kind of Carbon Nanotubes for Polymer Reinforcement without we recognize teach the one who looking at it become critical in imagining and analyzing. Don’t be worry Carbon Nanotubes for Polymer Reinforcement can bring any time you are and not make your tote space or bookshelves’ grow to be full because you can have it inside your lovely laptop even cell phone. This Carbon Nanotubes for Polymer Reinforcement having great arrangement in word and layout, so you will not really feel uninterested in reading.