

CNT/POLYMER NANOCOMPOSITES

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LAP Lambert Academic Publishing Sep 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - This book presents synthesis and characterization of CNT/Polymer nanocomposites. CNT/Polymer nanocomposites are materials whose major component is a polymer and the minor component is CNT whose dimension is below 100 nm. CNT/Polymer nanocomposites have become an active field of research in recent years because there have been accounts of large property changes with very small addition of CNTs (less than 5 wt%). CNTs have been synthesized by Chemical vapor deposition (CVD) and Arc discharge techniques. Solution cast method has been adopted for the synthesis of CNT/Polymer nanocomposites. The thickness of composites is controlled by using the weight of polymer. Volumetric method has been adopted to fix the thickness (40 μ m) of the polymer and verified by ellipsometer. Polymethyl methacrylate (PMMA) and Polystyrene (PS) amorphous polymers as base polymers, MWNTs as filler in (0.01-0.05) wt% have been used. A systematic study of these composites have been performed by using X-Ray Diffraction (XRD), Raman spectroscopy, Fourier Transform Infrared (FT-IR) spectroscopy, Dynamic Mechanical Analysis (DMA), Optical microscopy and Scanning electron microscopy (SEM). 104 pp. Englisch.



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