

Experimental and theoretical investigation of the mechanical behavior of a polymer matrix reinforced with carbon nanotubes

Abstract: The mechanical behavior of a polymer matrix reinforced with carbon nanotubes (CNTs) is investigated experimentally and theoretically. The experimental results show that the tensile strength and modulus of the CNT-reinforced polymer matrix increase with the CNT content. The theoretical results show that the mechanical behavior of the CNT-reinforced polymer matrix is governed by the interfacial shear strength between the CNTs and the polymer matrix. The interfacial shear strength is determined by the chemical structure of the polymer matrix and the surface functional groups of the CNTs. The theoretical results also show that the mechanical behavior of the CNT-reinforced polymer matrix is sensitive to the distribution of the CNTs in the polymer matrix.

Keywords: Carbon nanotubes, Polymer matrix, Mechanical behavior, Tensile strength, Modulus, Interfacial shear strength, CNT content, Chemical structure, Surface functional groups, Distribution of CNTs.



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Patrick Vollmar



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