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标题: THz Time-Domain Spectroscopy in Different Carbon Nanotube Thin-Films
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摘要: The direct metallic or semiconducting characterization of carbon nanotubes (CNTs) in the high-frequency is one of the key issues to use them in the different state-to-the-art applications. In this work, the terahertz surface conductivity and transmission of carbon nanostructures thin-film utilizing terahertz time-domain spectroscopy (THz-TDS) have been studied. We have also compared the achieved results of single-walled carbon nanotubes thin-film surface conductivity with pervious study as a function of frequency. However, we have improved the obtained conductivity of carbon nanostructures from the microwave to terahertz range by THz-TDS technique with high signal-to-noise ratio.
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