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Electrical and optical properties of MWNTs/HDPE composites in Terahertz region[J].Nuclear Science and Techniques,2012,03:156-162.

关键词:Carbon nanotubes,Transport properties,Terahertz time-domain spectroscopy,Cole-Cole equation

摘要:Optical and electrical properties of composites,prepared by filling of high density polyethylene(HDPE) with two kinds of multi-walled carbon nanotubes(MWNTs) differing in diameters,were explored by terahertz time-domain spectroscopy(THz-TDS) in the frequency range from 0.2 to 1.6 THz.It is found tha...