RAMAN CHARACTERIZATION OF CARBON NANOMATERIALS

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Abstract

Raman spectroscopy provides a wealth of information on the molecular structure and morphology of carbon nanomaterials. Diamond, graphite, fullerenes, DLC and various graphene based structures spectral examples are described and compared. Single walled carbon nanotubes SW-CNT and Multi-walled carbon nanotubes MW-CNT spectra are explained. Spectral mapping shows the Distribution of SW-CNT in a matrix of MW-CNT. The Thermo Scientific DXR Nanocarbon solution is a complete package for characterization of carbon nanomaterials. The instrument is highly productive, allowing users to spend far less time setting up and repeating measurements while gaining much more time applying the results. High reproducibility and unparalleled control of critical measurement parameters provides extraordinary confidence in results. When users encounter something unexpected, their first instinct is to understand what is going on with their sample rather than what went wrong with the measurement.

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