Iron-filled single- and multi-walled carbon nanotubes were synthesized by high temperature heat treatment of FeCl₃-impregnated single walled nanotubes [1] and pyrolysis of a ferrocene:C-60 mixture [2] respectively. Mössbauer spectroscopy measurements are used to probe the quality of the iron encapsulated inside to better understand the properties for magnetic composites, MFM tips and other future device applications.

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References