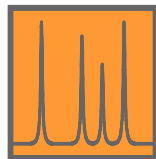


Raman spectroscopy overview - IV

Information from Raman Spectroscopy

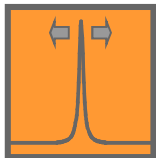


characteristic Raman frequencies



composition of material

e.g. MoS₂, MoO₃

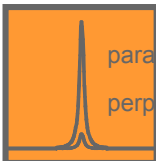


changes in frequency of Raman peak

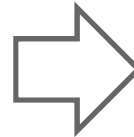


stress/strain state

e.g. Si 10 cm⁻¹ shift per % strain

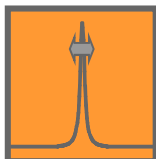


polarisation of Raman peak

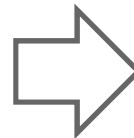


crystal symmetry and orientation

e.g. orientation of CVD diamond grains

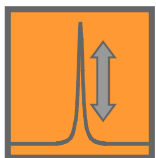


width of Raman peak



quality of crystal

e.g. amount of plastic deformation



intensity of Raman peak



amount of material

e.g. thickness of transparent coating