

Anisotropic exchange and effective crystal field parameters for low dimensional systems, EPR data

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Abstract

We review some aspects of the electron paramagnetic resonance (EPR) studies in quasi-one-dimensional inorganic compounds with special emphasis on the angular dependencies of g-factors, linewidth and the information they reveal about the physical system. In particular, we employ for the analysis of the data the method of moments and outline the expressions for the second and the fourth moments which is related to different spin-spin interactions.

Keywords

Anisotropic exchange interaction, Crystal field parameters, EPR, Low-dimensional systems