

WEAK FERROMAGNETISM

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ABSTRACT

The magneto optic properties of FeBO₃ are determined by the limits in the dielectric absorption tensor, which depend on the ferro and antiferromagnetism vectors. A classic example of the effect of crystal magnetic symmetry on the formation of a weak ferromagnetic moment is hematite α -Fe₂O₃, which has a rhombohedral elementary cell with four iron atoms. Hence the term "parasitic ferromagnetism", a term still found in some foreign literature.

KEYWORDS: Antiferromagnetic, Hematite, Spinorientation, Crystal, Ferromagnetic Moment

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