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Magnetic microstructure in strontium hexaferrites with correlated nonisomorphous substitutions

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Abstract

The influence of the correlated nonisomorphous substitution of Mn^{2+} and Ti^{4+} ions for Fe^{3+} ions in M-type hexaferrites on the shaping of their magnetic microstructure is studied. Conclusions regarding the possibility of the distribution of the substituent cations in the structure and their influence on the principal magnetic properties of the hexaferrites studied are drawn on the basis of data from Mössbauer spectroscopy. © 1997 American Institute of Physics.
