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Interrelation of Magnetic Properties with the Crystal Structures of MeFeSe (Me = Ti; V; Cr; Fe; Co; Ni) Compounds

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Abstract: Magnetization of MeFe_2Se_4 (Me = Ti; V; Cr; Fe; Co; Ni) compounds at low temperatures has been investigated. It is shown that these compounds are ferrimagnetics with low values of specific magnetization. It is established that along the crystal axis c of a given compound, there have been carried out two types of exchange interactions; cation-cation and cation-anion-cation with different dependence of their quantity on interatomic distance.

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