MICROSTRUCTURE AND MAGNETIC PROPERTIES OF HIGH Ms FERRITE/METAL COMPOSITE THIN FILMS

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Abstract—Metal/ferrite composite thin films were prepared by a reactive sputtering method to improve the saturation magnetization(M_s). The M_s of the thin films increased with increasing the substrate temperature and this was attributed to the increase of the metal portion in the thin films. The Mossbauer result indicated that the ferrite phase in the thin films changed to hyperstoichiometric one with deposition of metal phase.