

"LORENTZ MICROSCOPY OF METASTABLE Co-Cu SOLID SOLUTIONS"

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Study of magnetic domains by means of Lorentz microscopy showed that the irregular domain structure in the as-deposited state is rather unstable and it could be relatively easily transformed into large nearly parallel domains by means of an AC demagnetizing field. It seems probable that the domain structure of Co-Cu thin films, in general, due to AC demagnetization at low temperatures, is mainly controlled by the magnetocrystalline interaction of hcp and fcc cobalt phases. However, the role of the thermal fluctuation of magnetization seems to be mainly responsible for the domain pattern at elevated temperatures. This is particularly so in the case of thin films having the higher copper concentration.