

A Structural Study of Magnetic Films

R. Rajeswari, J. Park, and L. Martinez-Miranda (U. of Maryland)

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We have studied films in the region 800 – 1000 Å thick to observe the transition from substrate induced lattice parameters to completely relaxed surface. Studies have been performed using glancing angle x-ray scattering. The preliminary study shows that the films consist of regions where both a relaxed and a stressed lattice parameters coexist. As the depth increases, these evolve into a lattice parameter intermediate between the two.

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