



## Nano-crystalline thin films of Antimony Substituted Cobalt Ferrites

By Asmara Shabab

LAP Lambert Academic Publishing Nov 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - In modern world thin film technology has covers remarkable place in the field of industry as well as electronic media. Advance progress in computer technology forces many researchers to give attention on thin film technology. Ferrites thin films have been significantly used for high density storage and magnetic recording devices because of low noise ability, moderate saturation magnetization and chemical stability. At present the thin films are not in good qualities because the techniques applied for deposition are not versatile. This book therefore focuses on deposition of antimony substituted cobalt ferrites thin films using Electron Beam Deposition technique which is one of the advance and versatile method for deposition. The deposited thin films are post annealed at different temperatures to improve its quality. The as-deposited and post annealed ferrites films then characterized by XRD, Raman spectroscopy, AFM, VSM, UV-visible and Ellipsometry techniques. These analysis imposed light on improve structural, magnetic and optical properties of film that make ferrites film useful tool for magnetic recording applications like audio, videotape and digital recording disks. 92 pp. Englisch.



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