



No. 1, 1386/2007 Spring & Summer

Effects of Annealing on the Crystal Structure of Polycrystalline CdS Thin Films

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(Received:23/8/2006, received in revised form:14/4/2007)

Abstract: CdS thin films were deposited by thermal evaporation in a vacuum of $\sim 10^{-5}$ torr at room temperature. Samples were subjected to annealing in the range of temperatures 100-300 °C for 1 hour in air.The crystal structure of CdS films was characterized by XRD technique. Only hexagonal phase with the preferred (002) plane was found in CdS films.

Keywords: CdS, Annealing, Crystal Structure, Vacuum Evaporation