STUDY OF ELECTRICAL PROPERTIES OF ELECRODEPOSITED SEMICONDUCTING $CuInSe_2$ THIN FILMS

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Thin films of $CuInSe_2$ have been prepared by electro - deposition technique using $InCl_2$, SeO_2 and $CuCl_2$ solutions. The films produced by this technique are reported to be usually of n - type. However, we have been able to prepare p - type $CuInSe_2$ films using controlled electrodeposition conditions. Heterojunctions of n - CdS/p - $CuInSe_2$ have been fabricated using Cds films prepared by chemical bath technique. The electrical properties of the heterojunctions have been studied in solar cell applications.

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