Abstract

The II-VI group semiconductors are of great importance due to their applications in various opto electronic devices. Among these semiconductor. Zinc sulphide is the most suitable for its utility in opto electronic devices. Zinc Sulphide has been prepared on glass substrate by using Spray Pyrolysis method. The optical properties of these films have been studied in the wavelength range 380-1000-nm using UV-VIS spectro-photometer. The ZnS films has a direct band gap of 3. 47eV-3. 54eV. The thickness of these films were determined by weighing method and in the range of 0. 2120µm - 0. 2543. µm The structure of the prepared films was studied from X-ray diffraction pattern, the results shows that the film was
polycrystalline with hexagonal structure.

References


Index Terms

Computer Science Thin Solid Films

Keywords

Zns Thin Films Xrd Sem