

# DC electrical conduction of zinc telluride thin films

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## Abstract

Zinc telluride (ZnTe) thin films were deposited by thermal evaporation onto glass substrates kept at room temperature. X-ray diffraction studies showed that the films were polycrystalline and of cubic structure. The current–voltage ( $I$ – $V$ ) characteristics of the Au/ZnTe/Au thin film sandwich system at different temperatures were studied. The DC conduction was explained using the Schottky or Jonscher–Ansari modified Pool–Frenkel mechanism.

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**Keywords:** Zinc telluride; Thin films; Conduction; XRD

## 1. Introduction

The  $II$ – $VI$  compound semiconductors are of considerable interest, which is mainly due to their special electrical and optical properties. Among these compounds is zinc telluride (ZnTe), which is widely used in optoelectronic devices in the visible region. Polycrystalline thin films of ZnTe have been prepared using different techniques such as, thermal evaporation, sublimation in an inert atmosphere, chemical vapor deposition, spraying, electrodeposition [1–4], sputtering [5–7], epitaxial growth [8] and direct combination of Zn and Te in a quartz ampoule [9]. The current–voltage characteristic is important to explain the electrical conductivity mechanism depending on the polarity of the applied voltage. In fact this is not sufficient to explain the conduction mechanism in ZnTe thin films.

In the present work, the conduction mechanism in ZnTe thin films is investigated as a function of both applied voltage and temperature.

## 2. Experimental details

The ZnTe material was thermally evaporated using the vacuum evaporation technique (vacuum evaporation system type E306 Edward) at a pressure inside the chamber

better than  $3 \times 10^{-3}$  Pa onto a glass substrate kept at room temperature. The glass substrates were cleaned ultrasonically, then washed with alcohol, dried and rubbed gently with cotton. The substrates were placed close to each other on a substrate holder inside the evaporation chamber. The source-to-substrate distance was 0.2 m and the deposition direction was normal to the substrate. The gold electrode was evaporated from a molybdenum boat onto carefully cleaned glass substrates through suitable masks to form the base electrode. Pure ZnTe powder was evaporated through a mask from a molybdenum boat to form the film over the gold electrode. The film thickness ( $t$ ) was measured using a Fizeau interferometric method. Then another gold electrode was evaporated to complete the fabrication of the Au/ZnTe/Au sandwich devices as shown in Fig. 1. The completed devices had an active area of about  $1.25 \times 10^{-3}$  m<sup>2</sup>.

Structural analysis of the ZnTe samples was made using a JEOL X-ray diffractometer (model 60PA). The DC current across the sandwich was measured as a function of the applied voltage under vacuum at different temperatures (300–395 K) using Keithley 610 electrometer and auto-ranging power supply (model AP6050A). Temperature was measured using a copper–constantan thermocouple. Sample capacitance was measured at 100 kHz with zero DC bias using an LCR meter (Stanford Research System, model SR 720).

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# Dc Conduction In Thin Films

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