Elastic Properties and Phase change of II-VI elements

Dr. Prerana Sharma

ChameliDevi Group of Institutions, Indore, M.P.

[Prerana.sharma@cdgi.edu.in](mailto:Prerana.sharma@cdgi.edu.in)

**Abstract**. In this paper we incorporate effective interionic potential for elucidation of phase change and equations of state of II-VI MgX (X= Te,Se,S) compound semiconductors. We start with the reassess of relevant experiment and theoretical information’s on structure, thermal, elastic properties. Pressure dependency in the test material is also the important feature. Now we explain the numerical analysis of Phase change and elastic properties of alkaline-earth-chalcogenides Mg X.

References:

1. Pressure dependence of Elastic properties of ZnX (X =Se, S, and Te): Role of Charge Transfer

(Dinesh Varshney, **P. Sharma**, N. Kaurav and R. K. Singh)

2005, Bulletin of Materials Science Vol.28 No.7 Pp. 651-661.

2. High Pressure phase Transformation and Elastic behaviour of ZnX semiconducting compound

(Dinesh Varshney, R. Kinge,**P. Sharma,** N. Kaurav, R. K. Singh)

2005, Indian journal of Pure and Applied Physics Vol.43 Pp.939-951.