STUDY OF TRANSPORT MECHANISM IN CADMIUM AND LEAD SULPHIDE DOPED VANADIUM PHOSPHATE GLASSES.

Contents

CHAPTER 1
General Introduction
1.1 Introduction.
1.2 Use of glasses in various fields.
1.3 Present position of glasses in research and necessity of investigation.
1.4 Fabrication of glass samples.
1.5 Present line of investigation in the thesis.
1.6 X-ray characterization.
References.

CHAPTER 2
Dc Conductivity
2.1 Introduction.
2.2 Literature review.
2.3 Theoretical considerations.
2.4 Experimental / Dc conductivity measurement.
2.5 Results and discussion.
2.6 Conclusions.
References.

CHAPTER 3
Thermoelectric power and glasses.
3.1 Introduction.
3.2 Literature review.
3.3 Theoretical considerations.
3.4 System for TEP measurement.
3.5 Results and discussion.
3.6 Conclusions.
References.

CHAPTER 4
Photoconductivity studies on glasses.
4.1 Introduction.
4.2 Literature review.
4.3 Theoretical considerations.
4.4 Experimental measurement of photoconductivity.
4.5 Results and discussion.
   Field dependence
   Intensity dependence
   Spectral studies
   Temperature dependence
4.6 Conclusions.
   References.

CHAPTER 5
Optical properties
5.1 Introduction.
5.2 Literature review.
5.3 Theoretical considerations.
5.4 Experimental
5.5 Results and discussion.
5.6 Conclusions.
   References.

Summary

Bio-data