

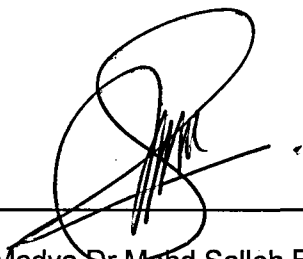
**ELASTIC STUDY OF TIN (II) CHLORIDE TELLURITE (TeO<sub>2</sub>-SnCl<sub>2</sub>) GLASS  
BY ULTRASONIC**

**NURUL HASMA BINTI HASSIM**

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This Final Year Project Report entitled “**Elastic Study Of Tin(II) Chloride Tellurite Glass By Ultrasonic**” was submitted by Nurul Hasma Binti Hassim, in partial fulfillment of requirement for Degree of Bachelor of Science (Hons) Physics, in the Faculty of Applied Science, and was approved by



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Profesor Madya Dr Mohd Salleh Bin Mohd Deni  
Supervisor  
Faculty of Applied Science  
Universiti Teknologi MARA  
40450 Shah Alam  
Selangor



---

Prof. Madya Mohd Yusoff Theeran  
Project Coordinator  
B.Sc.(Hons) Physics  
Faculty of Applied Science  
Universiti Teknologi MARA  
40450 Shah Alam  
Selangor



---

Dr Ab Malik Marwan Ali  
Head of Programme  
B.Sc.(Hons) Physics  
Faculty of Applied Science  
Universiti Teknologi MARA  
40450 Shah Alam  
Selangor

Date: 12 MAY 2010

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## **ABSTRACT**

### **ELASTIC STUDY OF TIN (II) CHLORIDE TELLURITE GLASS BY ULTRASONIC**

Glass in the system  $(100-x)\text{TeO}_2-(x)\text{SnCl}_2$ ,  $x = 1, 3, 5$  mol% have been prepared by the melt quenching technique. Elastic properties have been studied to investigate the role of  $\text{SnCl}_2$  on the structure of the glass system. Elastic properties, Poisson's ratio, and Debye temperature have been investigated using sound wave velocity measurement at 4 MHz ultrasonic frequency at room temperature. The result showed that the density of the glass increase with the content of  $\text{SnCl}_2$ . The effect of modifier on elastic properties of the glass system has also been discussed.