



**Faculty of Girls  
Physics Department**

## **Synthesis and Properties of Some Borosilicate Glasses**

### **A THESIS**

Submitted in partial fulfillment for the requirements of  
Master of Science degree

Ain Shams University, Cairo, Egypt

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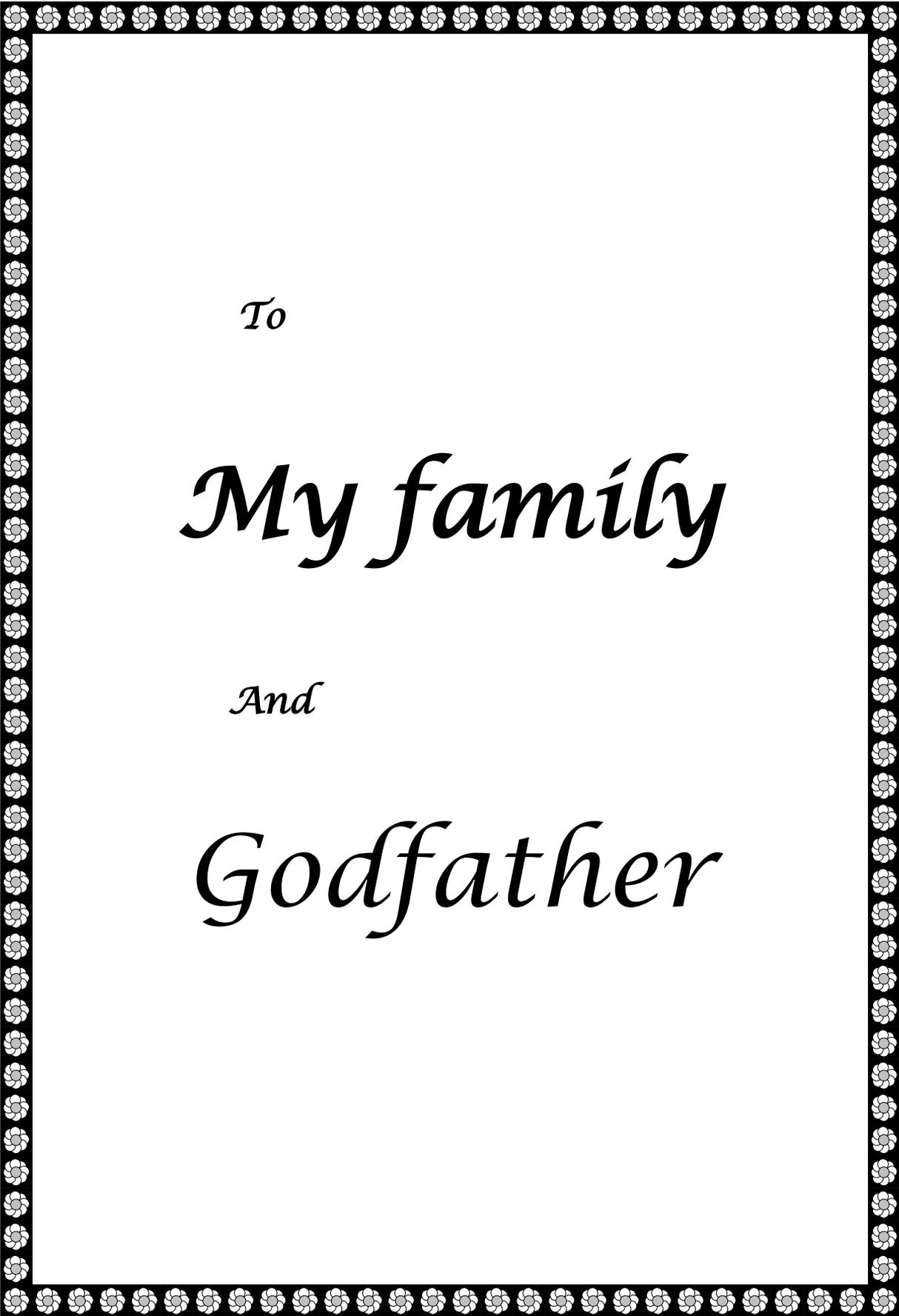
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*To*

*My family*

*And*

*Godfather*

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# **Abstract**

The growing importance of many glass systems as well as their growing potential and application in industry today enhanced the necessity for further intensive research, in attempts to shed more light on their structure and consequently their physical properties.

The main goal of the thesis is to study some physical properties of the glass samples, which could be used as a filter for water pollution. Then it could be study the Properties of sodium aluminum borosilicate glasses and sodium aluminum silicate glasses containing sulfur and manganese are controlled by structure variation.

We have in mind in all times the complexity of glass system. This complexity will also be reflected on the connection between properties, structure and application.

## **Summery**