

## Willemite-based glass ceramic doped by different percentage of erbium oxide and Ssntered in temperature of 500-1100C: physical and optical properties

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### Abstrak

This book investigates the effect of sintering temperature on willemite based glass-ceramic doped with different content of  $\text{Er}_2\text{O}_3$ . It is the first to report research on producing willemite by using waste materials and using trivalent erbium ( $\text{Er}^{3+}$ ) as a dopant. This book provides a survey of the literature on glass and glass-ceramic, while comprehensive experiments and analysis have been performed on the material used.