

C O N T E N T

<u>CHAPTER</u>		<u>PAGE</u>
	SUMMARY	
I	INTRODUCTION	1-5
II	THERMOLUMINESCENCE AND ITS APPLICATIONS.	
	A) The Concept of Luminescence	6-8
	B) Thermoluminescence (TL)	8-13
	C) Understanding of the TL Phenomenon:	
	1) The Band Theory of Solids.	13-17
	2) Configuration Co-ordinate curve Model.	17-20
	D) Theory of Thermoluminescence	20-25
	E) Factors Affecting Thermoluminescence	25-35
	F) Applications of Thermoluminescence	35-42
III	UV RADIATION DOSE MEASUREMENT.	
	A) Detection and Estimation of UV Energy.	43
	B) UV-dosimetry Using Thermoluminescence Dosimeters.	43-44

	Thermoluminescence	
	C) Application: of Δ -dosimetry	44-46
	D) Radiation Units.	46-48
IV	EXPERIMENTAL DETAILS.	49- -
	A) Preparation of Samples.	50-51
	B) Thermal Annealing Treatments.	51-52
	C) Mechanical Treatment.	52
	D) Sources of Irradiation.	52
	E) TL Glow Curve Reader.	53-54
	F) TL Emission Spectra Recording System.	54-55
V	EXPERIMENTAL RESULTS.	56-75
	DISCUSSION.	76
	A) Thermoluminescence (TL)	80-112
	B) Application of Intrinsic Thermoluminescence (TL) of NaCl:Ca(T) In Radiation Dosimetry.	112-127
	CONCLUSION.	128-132
	REFERENCES.	133-143