

C O N T E N T S

CERTIFICATE

DECLARATION

ACKNOWLEDGEMENTS

SUMMARY

LIST OF SYMBOLS

LIST OF TABLES

PART I

CHAPTER	TITLE	PAGE
1.	GENERAL INFORMATION ON SODIUM NITRATE AND CALCITE	1
2.	TECHNIQUES AND GRAPHICAL ANALYSIS ...	16

PART II

3.	MICROHARDNESS OF CRYSTALS (GENERAL) ...	52
4.	APPLICATION OF MEYER'S LAW AND KICK'S LAW TO RHOMBOHEDRAL CRYSTALS : CALCITE AND SODIUM NITRATE	74
5.	HARDNESS OF RHOMBOHEDRAL CRYSTALS : SODIUM NITRATE AND CALCITE ...	89
6.	HARDNESS ANISOTROPY OF RHOMBOHEDRAL CRYSTALS : SODIUM NITRATE AND CALCITE ...	107
7.	HARDNESS ANISOTROPY AND ERSS OF RHOMBOHEDRAL CRYSTALS : SODIUM NITRATE AND CALCITE ...	120

PART III

8.	DISSOLUTION PHENOMENA ON CRYSTAL SURFACES (GENERAL)	126
9.	CHEMICAL DISSOLUTION OF CALCITE : CLEAVAGES IN AQUEOUS SOLUTIONS OF L(+) TARTARIC ACID ...	143
10.	CONCLUSIONS AND FUTURE PLAN OF WORK ...	166

APPENDIX I

LIST OF RESEARCH PAPERS