CONTENTS

PART I. SPECTROSCOPIC PROPERTIES OF URANIUM COMPOUNDS		
CHAPTER 1	Experimental Procedure	5
CHAPTER 2	X-ray Analysis of the Crystal Structure of Uranyl Compounds	13
CHAPTER 3	General Features of the Fluorescence and Absorption Spectra of Uranyl	
	Compounds	36
CHAPTER 4	Fluorescence Spectra of Uranyl Compounds	41
CHAPTER 5	Absorption Spectra of Uranyl Compounds	71
CHAPTER 6	Intensity Measurements	94
CHAPTER 7	Miscellaneous Observations	107
CHAPTER 8	Miscellaneous Uranium Compounds	120
	PART II. THE PREPARATION OF URANIUM COMPOUDS	
CHAPTER 9	Synthesis of Uranyl Compounds	133
CHAPTER 10	Preparation of Other Uranium Compounds	146
CHAPTER 11	Problems in Synthesis	149
CHAPTER 12	Growth of Crystals	157
CHAPTER 13	Conclusions and Suggestions	166
Appendix 1-Ta	ables of Wavelength Measurements	173
Appendix 2-Special Preparations an Apparatus		259
Appendix 3-Miscellaneous Contributions to the Chemistry of Uranium		267
Bibliography		269
Index		281