

CONTENTS

I.	INTRODUCTION	1
II.	ATOMIC AND MOLECULAR SPECTRA	7
III.	EMISSION SPECTRA (APPARATUS)	29
IV.	QUALITATIVE ANALYSIS, SPECTRUM TABLES, AND STANDARD SAMPLES	69
V.	QUANTITATIVE ANALYSIS	93
VI.	RESONANCE AND CHEMICAL STRUCTURE	133
VII.	ABSORPTION SPECTRA (APPARATUS AND METHODS)	150
VIII.	RELATION BETWEEN MOLECULAR STRUCTURE AND ABSORPTION SPECTRA	203
IX.	APPLICATION OF ABSORPTION SPECTRA DATA	239
X.	INFRARED AND RAMAN SPECTRA	269
XI.	COLORIMETRY AND FLUORIMETRY	278
XII.	LABORATORY EXPERIMENTS	290
XIII.	THEORY AND PRACTICE OF PHOTOGRAPHY	357
XIV.	EQUIPMENT AND ARRANGEMENT OF A SPECTROGRAPHIC LABORATORY	375