

CONTENTS

	PAGE
CHAPTER I. THE ATOMIC CONCEPT OF MATTER.....	1
By HUGH S. TAYLOR, David B. Jones Professor of Chemistry, Princeton University, Princeton, N. J.	
CHAPTER II. QUANTUM THEORY OF ATOMIC SPECTRA AND ATOMIC STRUCTURE.....	119
By SAUL DUSHMAN, Assistant Director, Research Laboratory, General Electric Company, Schenectady, N. Y.	
CHAPTER III. THE FIRST AND SECOND LAWS OF THERMODYNAMICS.	437
By HUGH S. TAYLOR, David B. Jones Professor of Chemistry, Princeton University, Princeton, N. J.	
CHAPTER IV. THE THIRD LAW OF THERMODYNAMICS AND STATISTICAL MECHANICS.....	511
By JOHN G. ASTON, Director of the Cryogenic Laboratory and Professor of Chemistry, The Pennsylvania State College, State College, Pa.	
APPENDIX. VALUES OF PHYSICAL CONSTANTS.....	671
INDEX.....	673