CONTENTS.

PART I.

FUNDAMENTAL FACTS AND DEFINITIONS. CHAP. PAGE 1 I. TEMPERATURE $\mathbf{23}$ II. MOLECULAR WEIGHT 34 III. QUANTITY OF HEAT . • • . . .

PART II.

THE FIRST FUNDAMENTAL PRINCIPLE OF THERMODYNAMICS.

Ι.	GENERAL EXPOSITI	ON .	•	•	•	•	4 0
11.	APPLICATIONS TO I	IOMOGENE	ous sys	TEMS	•	•	4 8
ш.	APPLICATIONS TO	NON-HOMO	GENEOU	S SYS	rems		69

PART III.

THE SECOND FUNDAMENTAL PRINCIPLE OF THERMODYNAMICS.

Ι.	INTRODUC	CTION	•	· ·	•	•	•	•	•	78
п.	PROOF	•	•	•	•	•		•		89
ш.	GENERAL	DED	UCTIO	NS	•	•		•		108
xiii										

CONTENTS

PART IV.

	APPLICATIO	NS TO	SPEC	IAL S	TATES	\mathbf{OF}		
		EQUII	IBRIU	м .				
снар. Т.	HOMOGENEOUS S	~ YSTEM	з.	•	•	•	•	page 125
п.	SYSTEM IN DIFFI	RENT S	STATES	OF A	GGREGA	TION	•	139
111.	SYSTEM OF ANY STITUENTS .	NUMBI	ER OF	INDEF	ENDEN	т сом •		179
1 v.	GASEOUS SYSTEM	ı.	•	•	•	•	•	215
v.	DILUTE SOLUTIO	ns .	•	•	•	•	•	229
VI.	ABSOLUTE VALU THEOREM .	E OF	THE I	•	PY. NI •	ERNST	's •	272
	INDEX	•	•	•	•	•	•	293