

Contents

Symbols and Physical Constants	I 6
Introduction	
1. Internal Energy and Entropy	I 8
2. Enthalpy and Gibbs Energy	I 12
3. Conventional Enthalpy and Entropy	I 17
4. Chemical Equilibrium	I 24
5. Configurational Entropy	I 28
6. Atomistic and Analytical Components	I 32
7. Real and Perfect Gases	I 38
8. Vapor Pressure	I 43
9. Thermal Decomposition, Thermal Formation	I 46
10. Multimolecular Gases, Potential Diagrams	I 50
11. Stability and Metastability	I 53
12. Crystals of Variable Compositions	I 58
13. Consistency and Accuracy	I 60
14. Thermochemical Energy Balance	I 63
15. Tables for Elements and Compounds	I 67
16. Impurities in Metals and Conventional Data of Solutes	I 70
17. Aqueous Solutions and Conventional Data of Solutes	I 79
18. Galvanic Cells	I 89
19. Literature Concerning Theoretical Background	I 94
Index of Elements and Compounds	I 95
Literature Concerning Tables	I 113
Tables of Elements and Compounds	
Volume 1	1
Volume 2	1114