



Introduction to Molecular Thermodynamics

By Hanson, Robert / Green, Susan

Book Condition: New. Publisher/Verlag: Palgrave Macmillan | Starting with just a few basic principles of probability and the distribution of energy, *Introduction to Molecular Thermodynamics* takes students on an adventure into the inner workings of the molecular world like no other, from probability to Gibbs energy and beyond, following a logical step-by-step progression of ideas. | Preface To the Instructor To the Student: How to Study Thermodynamics Acknowledgments PART I: PROBABILITY, DISTRIBUTIONS, AND EQUILIBRIUM PART II: THE DISTRIBUTION OF ENERGY PART III: ENERGY LEVELS IN REAL CHEMICAL SYSTEMS PART IV: INTERNAL ENERGY (U) AND THE FIRST LAW PART V: BONDING AND INTERNAL ENERGY PART VI: THE EFFECT OF TEMPERATURE ON EQUILIBRIUM PART VII: ENTROPY (S) AND THE SECOND LAW PART VIII: THE EFFECT OF PRESSURE AND CONCENTRATION ON ENTROPY PART IX: ENTHALPY (H) AND THE SURROUNDINGS PART X: GIBBS ENERGY (G) PART XI: THE EQUILIBRIUM CONSTANT (K) PART XII: APPLICATIONS OF GIBBS ENERGY: PHASE CHANGES PART XIII: APPLICATIONS OF GIBBS ENERGY: ELECTROCHEMISTRY APPENDIX A Symbols and Constants APPENDIX B Mathematical Tricks APPENDIX C Table of Standard Reduction Potentials APPENDIX D Table of Standard Thermodynamic Data (25°C and 1 bar) APPENDIX E Thermodynamic Data for the Evaporation of Liquid Water...

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