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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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