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8.1. Ideal and non-ideal solutions 8.2. Perfect solutions and ideal solutions; 8.3. Reference systems for thermodynamic unitary quantity; 8.4. Thermodynamic excess functions in non-ideal solutions; 8.5. Units of the concentration; 8.6. Osmotic pressure; 8.7. Electrolytic solutions; CHAPTER 9. ELECTROCHEMICAL ENERGY; 9.1. Electrochemical potential of charged particles; 9.2. Transfer of charged particles between two condensed phases; 9.3. Electrode and electrode potential; 9.4. Electrochemical cells; 9.5. Equilibrium electrode potential of electronic transfer reactions

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Sommario/riassunto

This book is a beginners introduction to chemical thermodynamics for engineers. In the textbook efforts have been made to visualize as clearly as possible the main concepts of thermodynamic quantities such as enthalpy and entropy, thus making them more perceivable. Furthermore, intricate formulae in thermodynamics have been discussed as functionally unified sets of formulae to understand their meaning rather than to mathematically derive them in detail. In this textbook, the affinity of irreversible processes, defined by the second law of thermodynamics, has been treated as the main
