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Isotherm Equation in Terms of  $H$ "; "2.13 Clausius-Clapeyron Equation"; "2.14 Thermodynamic Equations of State"; "2.15 Statistical Thermodynamics"; "Questions"; "Chapter 3. Solutions"; "3.1 Introduction"; "3.2 Ways of Expressing Concentrations of Solutions: Some Definitions"; "3.3 Solutions of Gases In Liquids"; "3.4 Solutions of Liquids in Liquids"; "3.5 Completely Miscible Liquids"; "3.6 Partially Miscible Liquid Mixtures"; "3.7 Effect of Impurities of Critical Solution Temperature"; "3.8 Study of Immiscible Liquids"; "3.9 Thermodynamic Properties of Solution: Partial Molar Quantities"; "3.10 Colligative Properties of Solutions"; "3.11 Vapor Pressure Lowering"; "3.12 Osmosis and Osmotic Pressure"; "3.13 Elevation in Boiling Point and Depression in Freezing Point of a Solution"; "3.14 Colligative Properties of Electrolytes"; "Questions"; "Chapter 4. Phase Equilibria, Phase Diagrams and Distribution Law"; "4.1 Gibbs Phase Rule"; "4.2 Thermodynamic Derivation of the Phase Rule"; "4.3 Phase Diagrams"; "4.4 One Component System"; "4.5 Phase Diagram of Water"; "4.6 Sulphur System"; "4.7 Helium System"; "4.8 Phase Diagram of Carbon Dioxide"; "4.9 Phase Diagram of Carbon"; "4.10 Phase Equilibria in Two Component Systems (Binary Systems)"; "4.11 Simple Binary Eutectic Phase Diagram"; "4.12 Phase Diagram Showing Congruent Melting Point"; "4.13 Phase Diagram Showing Incongruent Melting Point, or Peritectic Point"; "4.14 Monotectic Type Phase Diagram"; "4.15 Phase-Transformations in Solids"; "4.16 Ubbelohde's Classification"; "4.17 Distribution Law"; "4.18 Determination of Equilibrium Constant"

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## Sommario/riassunto

About the Book: This is a comprehensive book of Physical Chemistry especially written for B.Sc. II year and B.Sc. III year students of Indian universities based on the model syllabus prepared by UGC, New Delhi. The book is written in a simple language and gives a comprehensive detail of the subject with latest developments. There are 11 Chapters in the book. The book is equally useful to students and teachers. Some special Chapters like Surface Chemistry-Adsorption and Surface Topography, Molecular Spectroscopy and Diffraction Techniques have also been included in this book. Contents: Thermodynamics-I Thermodynamics-II Solutions Phase Equilibria, Phase Diagrams and Distribution Law Chemical Equilibrium Photochemistry Electrochemistry-I Electrochemistry-II Molecular Spectroscopy Surface Chemistry-Adsorption and Surface Topography Diffraction Techniques

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