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Nota di contenuto	PARTITION AND ADSORPTION OF ORGANIC CONTAMINANTS IN ENVIRONMENTAL SYSTEMS; CONTENTS; Preface; 1 Important Thermodynamic Properties; 1.1 Introduction; 1.2 First Law of Thermodynamics; 1.3 Second Law of Thermodynamics; 1.4 Extensive and Intensive Properties; 1.5 Chemical Potential; 1.6 Chemical Potentials in Multiple Phases; 1.7 Change in Chemical Potential with Pressure; 1.8 Activity of a Substance; 1.9 Vapor-Liquid and Vapor-Solid Equilibria; 2 Fundamentals of the Solution Theory; 2.1 Introduction; 2.2 Raoult's Law; 2.3 Henry's Law; 2.4 Flory-Huggins Theory 2.5 Variation of Activity Coefficient with Concentration2.6 Molar Heat of Solution; 2.7 Cohesive Energy Density and Solubility Parameter; 3 Interphase Partition Equations; 3.1 Partition between Two Separate Phases; 3.2 Partition between an Organic Solvent and Water; 3.3 Partition between a Macromolecular Phase and Water; 3.4 Temperature Dependence of Partition Coefficient; 3.5 Concentration Dependence of Partition Coefficient; 4 Fundamentals of the Adsorption Theory; 4.1 Introduction; 4.2 Langmuir Adsorption Isotherm; 4.3 Freundlich

Sommario/riassunto	Given the presence of a wide variety of contaminants in the environment, it is important to understand what drives a contaminant from one medium to another, as well as the manner and extent to which a contaminant associates with the different media or phases within a local environmental system. Partition and Adsorption of Organic Contaminants in Environmental Systems forms a comprehensive resource on the behavioral characteristics of contaminants so that appropriate strategies can be adopted to either prevent or minimize their adverse impacts on human welfare and natural resource