Thermodynamics of Materials Volume II (Mit Series in Materials Science and Engineering)

David V. Ragone

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The laws of thermodynamics, property relations, equilibrium, solutions (metallic and polymer) and phase diagrams are covered and applied specifically to the study of materials science in volume one. An introduction to statistical thermodynamics provides a basis for the understanding of equilibrium thermodynamics and contributes to an understanding of kinetics. The author emphasizes the necessity for materials science students to be knowledgeable in both the sciences and engineering and provides background for both. Numerous problems supplement the end of each chapter. Volume two begins with a brief review of macroscopic thermodynamics and then expands into the thermodynamics of defects and interfaces. A strong emphasis is placed on kinetic phenomena with sections on evaporation from surfaces, mean free path of molecules in gases and diffusion. Kinetic phenomena in the solid state topics include nucleation, spinodal decomposition and reaction kinetics. Also covered is the thermodynamics of rubber elasticity.

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