



## Elements of Materials Science and Engineering (6th Edition)

By Van Vlack, L. H.

Prentice Hall, 1989. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Introduction to Materials Science and Engineering. Materials and Civilization. Materials and Engineering.

Structure/Properties/Performance. Types of Materials.

Summary. Key Words. Practice Problems. Test Problems. 2.

Atomic Bonding and Coordination Engineering. Individual

Atomic Bonding and Coordination Engineering. Individual Atoms and Ions. Molecules. Macromolecules (Polymers). Three-Dimensional Bonding. Interatomic Distances. Generalizations Based on Atomic Bonding. Summary. Key Words. Practice Problems. Test Problems. 3. Crystals (Atomic Order). Crystalline Phases. Cubic Structures. Noncubic Structures. Polymorphism. Unit-Cell Geometry. Crystal Directions. Crystal Planes. X-Ray Diffraction (optional). Summary. Key Words. Practice Problems. Test Problems. 4. Disorder in Solid Phases. Imperfections in Crystalline Solids. Noncrystalline Materials. Order and Disorder in Polymers. Solid Solutions. Solid Solutions in Ceramic and Metallic Compounds. Solid Solutions in Polymers (Copolymers). Summary. Key Words. Practice Problems. Test Problems. 5. Phase Equilibria. Introduction Phase Diagrams (Qualitative). Chemical Compositions of Equilibrated Phases. Quantities of Phases in Equilibrated Mixtures. Invariant Reactions. Selected Phase Diagrams. Summary. Key Words. Practice Problems. Test Problems. 6. Reaction Rates. Deferred Reactions. Segregation During Solidification (optional). Nucleation. Atomic Vibrations (optional). Atomic Diffusion. Summary. Key Words. Practice Problems. Test Problems. 7. Microstructures. Single-Phase Materials, Phase Distribution (Precipitates), Phase Distribution

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