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Elements of Materials Science and Engineering (6th Edition)

By Van Vlack, L. H.

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Materials science, the study of the properties of solid materials and how those properties are determined by a material's composition and structure. It grew out of an amalgam of solid-state physics, metallurgy, and chemistry, since the rich variety of materials properties cannot be understood. Professor of Chemical Engineering, University of Delaware, Newark; former Director, Center for Composite Materials. Author of Concepts of Fiber-Resin Composites. See Article History. Materials science, the study of the properties of solid materials and how those properties are determined by a material's composition and structure. Chapter 1: Introduction to Materials Science and Engineering Chapter 2: Atomic Bonding and Coordination Chapter 3: Crystals (atomic order) Chapter 4: Disorder in solid phases Chapter 5: Phase Equilibria Chapter 6: Reaction rates Chapter 7: Microstructures Chapter 8: Deformation and Fracture Chapter 9: Shaping Strengthening and Toughening Processes. Bronze is an alloy (a metal made up of more than one element), copper + < 25% of tin + other elements. Bronze: can be hammered or cast into a variety of shapes, can be made harder by alloying, corrode only slowly after a surface oxide film forms. Historical. The Iron Age began about 3000 years ago and continues today.

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