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Mechanical properties are described as the relationship between forces (or stresses) acting on a material and the resistance of the material to deformation (i.e., strains) and fracture. This article briefly introduces the typical relationships between metallurgical features and the mechanical behavior of metals.

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This article reviews the fundamental relationships between microstructure and mechanical properties for major classes of nonmetallic engineering materials: metals, ceramics and glasses, intermetallic compounds, polymers, and composites. It details the structures of inorganic crystalline solids, inorganic noncrystalline solids, and polymers.

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Provides a comprehensive introduction to the mechanical behaviour of solid polymers. Extensively revised and updated throughout, the second edition now includes new material on mechanical relaxations and anisotropy, composites modelling, non-linear viscoelasticity, yield behaviour and fracture of tough polymers.

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Description. Survey of the mechanical response of solids to forces and stresses. Responses studied include elastic, viscoelastic, plastic deformation and fracture. Prereq: 2010, and MechEng 2020 or 2040, and enrollment as MatScEn-BS student; or permission of instructor. Units: 3 credit hours.

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