

Structure and properties of engineering materials

McGraw-Hill - Properties of materials



Description: -

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Alloys.

Materials. Structure and properties of engineering materials

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Engineering material

To understand the limits of materials and the change of their properties with use. Hardness of Building Materials The property of a materials to resist scratching by a harder body. To understand the structure of a material, the type of atoms present, and how the atoms are arranged and bonded must be known.

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Chemical Properties of Building Materials The properties of materials against the chemical actions or chemical combinations are termed as chemical properties. Example: fire clay is high refractory material. Physical properties of metals are density, color, size and shape, specific gravity of material, porosity etc.

Properties of materials

Melting point states as transition point between solid and liquid phases. This Mechanical Properties Mechanical properties of material help us to measure how materials behave under load. Each unit cell is defined in term of Lattice Points i.

Engineering materials

It is time dependent and occurs at very slow rate.

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