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Ultimate tensile strength (UTS), often shortened to tensile strength (TS), ultimate strength, or F_{tu} within equations, is the capacity of a material or structure to withstand loads tending to elongate, as opposed to compressive strength, which withstands loads tending to reduce size.

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Compressive yield strength of all metals, except those cold-worked⁵ tensile yield strength. Stress 1,000 lb/in² 3 6.894 5 stress, MN/m² . men, resulting in what is known as the cup-and-cone fracture.

Strength of Materials
Strength of Materials is an important subject to understand the

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behavior of objects under stress. It has numerous applications in the field of construction engineering. In this tutorial, the tutor explains different types of stresses and strains acting on various construction materials.

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stress. Stress on

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axial loading. Strain.

Mechanical properties

of materials.

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Mechanics of Materials

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Strength of materials, also called mechanics of materials, is a subject which deals with the behavior of solid objects subject to stresses and strains . In materials science, the strength of a material is its ability to withstand an applied load without failure.

*MDSolids: Educational
Software for Mechanics
of Materials*
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Book. Dr. R.K. Bansal.
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Constants; Principle
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impact loading; Center
of gravity and moment
of inertia; Shear force
and bending moment;
Bending stresses in
beams; Shear stresses
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MDSolids is software for topics taught in the Mechanics of Materials course (also commonly called Strength of Materials or Mechanics of Deformable Solids). This course is typically a part of civil, mechanical, and aerospace engineering

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The yield strength of
the material is
commonly chosen as
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the strength limit to which the calculated stresses are compared. The factor of safety , FS , is calculated as: where σ actual is the calculated stress in the structure, and σ limit is a maximum stress limit, typically a material strength such as the yield strength (S_{ty}).

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In mechanics of
materials, the strength
of a material is its
ability to withstand an
applied load without
failure or plastic

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deformation. The field of strength of materials deals with forces and deformations that result from their acting on a material.

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Strength of materials is a basic engineering subject that, along with statics, must be understood by anyone concerned with the strength and physical

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performance of structures, whether those structures are man-made or natural. At the college level, mechanics of materials is usually taught during the sophomore and junior years.

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and Strain. Elastic
constant. Centre of
Gravity and Moment of
Inertia. Elastic strain

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consideration of the behavior of one and two dimensional members of structures,...

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Such a material is elastic according to the description of elasticity given earlier (immediate response, full recovery), and it is also linear in its relation between stress

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and strain (or equivalently, force and deformation).

Therefore a Hookean material is linear elastic, and materials engineers use these descriptors interchangeably.

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