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Strength / Mechanics of Material Menu. 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. A load applied

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to a mechanical member will induce internal forces within the member called stresses when those forces are expressed on a unit basis.

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ability of a material to resist mechanical forces when in use. A material's strength in a given application depends on many factors, including its resistance to deformation and cracking, and it often depends on the shape of the member being designed.

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objectives in analysis here will be the determination of the stresses, strains, and deflections produced by loads. Theoretical analyses and experimental results have an equal roles in this field.

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Strength. It is the property of a material which opposes the deformation or breakdown of material in presence of external forces or load. Materials which we finalize for our engineering

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products, must have suitable mechanical strength to be capable to work under different mechanical forces or loads. Toughness

~~Mechanical Properties  
of Engineering  
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In general, the yield strength of a material is an adequate indicator of the material's

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mechanical strength.

Considered in tandem with the fact that the yield strength is the parameter that predicts plastic deformation in the material, one can make informed decisions on how to increase the strength of a material depending its microstructural properties and the desired end effect.

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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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Materials of 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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Strength of materials ...  
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Strength is defined as

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Materials  
Mechanical  
Engineering  
the ability of a material to resist the externally applied forces with breakdown or yielding.

Important  
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The internal resistance offered by a material to an externally applied force is called stress.

The capacity of bearing load by metal and to withstand destruction under the action of external loads is known as strength.

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Strength is the mechanical property that enables a metal to resist deformation load. The strength of a material is its capacity to withstand destruction under the action of external loads. The stronger the materials

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the greater the load it  
can withstand. 2.

~~13 Mechanical~~

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## Important Questions