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## **strength of materials basics and equations mechanics of**

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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

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definition in the mechanics of materials the strength of a material is its ability to withstand an applied load without failure or plastic 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 also know as mechanics of materials is focused on analyzing stresses and deflections in materials under load knowledge of stresses and deflections allows for the safe design of structures that are capable of supporting their intended loads contents stress strain hooke s law strain energy stiffness

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in the mechanics of materials the strength of a material is its ability to withstand an applied load without failure or plastic deformation the strength of materials considers the relationship between the external loads applied to a material and the resulting deformation

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strength of materials also known as mechanics of materials and mechanics of deformable bodies is the study of the internal effect of external forces applied to structural member stress strain deformation deflection torsion flexure shear diagram and moment diagram are some of the topics covered by this subject

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thermal stress temperature changes cause the body to expand or contract the amount  $\delta t$  is given by  $\delta t = \alpha l t_f - t_i$  where  $\alpha$  is the coefficient of thermal expansion in  $m/m/c$   $l$  is the length in meter  $t_i$  and  $t_f$  are the initial and final temperatures respectively in  $c$

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rupture strength is the strength of the material at rupture this is also known as the breaking strength modulus of resilience modulus of resilience is the work done on a unit volume of material as the force is gradually increased from 0 to  $P$  in  $N\ mm\ m^3$

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definition it is the combination of physical mathematical and computer laws and techniques to predict the behavior of a solid materials that are subjected to mechanical or thermal loadings it is the branch of mechanics that deals with the behavior of solid matter under external actions the external actions may be external force

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therefore the subject of mechanics of materials or strength of materials is central to the whole activity of engineering design usually the 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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what is strain in mechanics strength of material when an external force is applied a rigid body changes its size and shape due to internal mechanical stress we represent this change in length by strain in this article we will discuss what is the strain in mechanics types of strain and how to calculate mechanical strain

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to ensure the proper functioning of a mechanical system or structure each component must be able to perform its intended function effectively the objective of engineering component safety design is to guarantee that the components have adequate strength stiffness and stability

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simple strain also known as unit deformation strain is the ratio of the change in length caused by the applied force to the original length  $\epsilon = \frac{\delta l}{l}$  where  $\delta$  is the deformation and  $l$  is the original length thus  $\epsilon$  is dimensionless tags strain simple strain strain up stress strain diagram add new comment 160344 reads

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