



Applied Statics and Strength of Materials

By Leonard Spiegel and George Limbrunner

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Strength of materials, also called mechanics of materials, deals with the behavior of solid objects subject to stresses and strains. The complete theory began with the consideration of the behavior of one and two dimensional members of structures, whose states of stress can be approximated as two dimensional, and was then generalized to three dimensions to develop a more complete theory of the elastic and plastic behavior of materials. An important founding pioneer in mechanics of materials was Applied stress may be tensile, compressive, or shear. The strength of a material is its ability to withstand an applied stress without failure. Deformation (e.g. bending) of the material is called strain. the intensity of the internal resisting force is called stress. Yield strength. The Elastic Limit is the highest stress that a material can have where the change in length will go back to zero once the load is removed as shown on the diagram on the left below. the plastic zone. the Plastic Zone where the material will change its length but the change in length will not go back to zero when the load is removed. In the plastic zone of the stress-strain diagram the stress remains constant. Hooke's Law