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#### **Statics Mechanics Of Materials 1st**

Weight points down (270°) and T 1 points to the left (180°). These are both good vectors — good in the sense that they are easy to deal with. T 1 is the troublemaker. Break it up into components and state the conditions for equilibrium in the vertical and horizontal directions.

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## Classical mechanics - Wikipedia

In continuum mechanics, stress is a physical quantity that expresses the internal forces that neighbouring particles of a continuous material exert on each other, while strain is the measure of the deformation of the material which is not a physical quantity . For example, when a solid vertical bar is supporting an overhead weight, each particle in the bar pushes on the particles immediately ...

## Stress (mechanics) - Wikipedia

NCEES Problem 510 in the Machine Design and Materials Practice Exam (2106) is a classic 2D equilibrium problem involving a mechanical device to hold up a weight by friction based forces.

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