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characterized by bending. The greatest stresses in the member are calculated as the product of the bending moment at the point of interest in the beam and the distance from the "centroid" of the beam divided by the moment of inertia the beam. A plate is relatively thin along one axis (thus a "plate").



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Quasi-static bending of beams A beam deforms and stresses develop inside it when a transverse load is applied on it. In the quasi-static case, the amount of

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bending deflection and the stresses that develop are assumed not to change over time.

### **Bending - Wikipedia**

Significant shear stress occurs in the middle plate (the "web") of I-beams under bending loads, due to the web constraining the end plates ("flanges").



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Isotropic stress [ edit ] Isotropic tensile stress.

### **Stress (mechanics) - Wikipedia**

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