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Roark's Formulas for Stress and Strain was first published in 1938 and the most current eighth edition was published in November 2011.

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The tensile stress in the outer fiber of such a beam is  $\sigma = \frac{M y}{I}$  where  $y$  is the perpendicular distance from the neutral axis to the outer surface of the beam. If this stress reaches the yield strength  $\sigma_y$  of the material of the beam, small zones of plasticity appear at the surface (top diagram, facing page).

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The formulas of this section are based on the following assumptions: (1) The plate is flat, of uniform thickness, and of homogeneous isotropic material; (2) the thickness is not more than about one-quarter of the least transverse dimension, and the maximum deflection is not more than about one-half the thickness; (3) all forces/loads and reactions are normal to the plane of the plate; and ...

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