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Such postbuckling behavior is important in many problems of shell design. Elastic stability is discussed further in Chap. 15, and formulas for the critical loads for various members and types of loadings are given in Tables 15.1 and 15.2. 3.14 References 1. Roark, R. J. Formulas for Stress and Strain, 4th ed., McGraw-Hill, 1965. 2.

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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 σ_y of the material of the beam, small zones of plasticity appear at the surface (top diagram, facing page).

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