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MECHANICS

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Hooke had it right in his drawing of a bent beam (Potentia Restitutive, 1678) 30 years before Jacob got it wrong, but Hooke could not express it mathematically. **** Euler (1707–1783) was probably the greatest applied mathematician dealing with solid mechanics in the 18th century.

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over the cross-sectional area is equal to the applied loads. Hence, because of pressures P_1 and axial load P applied to an end plate (Figure 11.4), overall equilibrium in the axial direction requires $\sum F_x = P_1 - P_2 + P = 0$. If there is no axial load P applied to the closed ends, $P = 0$.

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