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PLTW, Inc. Engineering Formulas y footing $A = \text{area of foot}$
Structural Design qnet Steel Beam Design: Moment $M_n = F$

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ϕM_n = allowable bending moment M_n = nominal moment strength $\phi = 1.67$ = factor of safety for bending moment F_y = yield stress Z_x = plastic section modulus about neutral axis
Spread Footing Design = $q_{allowable} - p$
footing q

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Engineering Formulas Mode Mean n = number of data values
 \max events A and B and C occurring in sequence x A
 $q = 1 - P(\sim A)$ = probability of event A. Engineering Formula Sheet. Probability. Conditional Probability Binomial Probability (order doesn't matter)

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strength $b = 1.67 =$ factor of safety for bending moment $F_y =$ yield stress $Z_x =$ plastic section modulus about neutral

axis Spread Footing Design = q allowable - p footing q

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Chapter 9 Structural Analysis Equations deflection D due to design load plus ponded water can be closely estimated by (9-6) where D_0 is deflection due to design load alone, S beam spacing, and S_{cr} critical beam spacing (Eq. (9-31)).

Combined Bending and Axial Load. Concentric Load
Addition of a concentric axial load to a beam under loads

Structural Analysis Equations

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