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footing $A =$ area of foot Structural Design

qnet Steel Beam Design: Moment $M_n = F_y Z_x$

$M_a =$ allowable bending moment $M_n =$

nominal moment strength $\phi_b = 1.67 =$

factor of safety for bending moment $F_y =$

yield stress $Z_x =$ plastic section modulus

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about neutral axis Spread Footing Design
= q allowable - p footing q

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PLTW, Inc. 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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Moment M $n = F$ y Z x M a = allowable

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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 = $q_{allowable} - p_{footing}$
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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

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