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Formulas y footing  $A =$   
area of foot Structural  
Design  $q_{net}$  Steel Beam  
Design: Moment  $M_n =$   
 $F_y Z_x$   $M_a =$  allowable  
bending moment  $M_n =$   
nominal moment  
strength  $b = 1.67 =$   
factor of safety for  
bending moment  $F_y =$

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yield stress  $Z_x =$  plastic  
section modulus about  
neutral axis Spread

Footing Design =  $q$   
allowable - p footing  $q$

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Formulas Mode Mean  $n$   
= number of data values

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max events A and B and  
C occurring in sequence  
 $x A q = 1 P(\sim A) =$

probability of event A.

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Design: Moment M n =  
F y Z x M a = allowable  
bending moment M n =  
nominal moment  
strength b = 1.67 =  
factor of safety for  
bending moment F y =  
yield stress Z x = plastic  
section modulus about

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neutral axis Spread  
Footing Design =  $q$   
allowable -  $p$  footing  $q$   
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“ Cheat Sheet ” ... For example, if a designer is given a certain set of constraints on a structural problem (i.e. loads, spans and end conditions) a

“ required ” value of the moment of inertia can be determined.

Then, any structural

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element which has at least  
that specific moment of  
inertia will be able to be  
utilized in ...

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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  $S_{cr}$

cr. critical beam spacing

(Eq. (9 – 31)).

Combined Bending and

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

Structural Analysis  
Equations

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beam (Figure) with a  
span of  $L=20\text{ft}$  is  
subjected to a uniform  
service load of  $1200\text{ lb/ft}$ ,  
including self weight, and

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a live load of 900 lb/ft.

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