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sequence  $x$   $A$   $q = 1$   $P(\sim A)$  = probability of  
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qnet Steel Beam Design: Moment  $M_n = F_y Z_x$   
 $M_a$  = allowable bending moment  $M_n$   
 $n$  = 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  
 $= q_{\text{allowable}} - p_{\text{footing}} q$

## Engineering Formula Sheet

the analysis and design of primary structural system. The attachment of non-structural elements is the responsibility of

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the architect or designer, unless specifically shown otherwise. The Engineer assumes no responsibility for work not a part of these calculations. When structural observation or field

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Chapter 6. Timber Engineering Formulas  
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Lumber / 157 Bearing / 159 Beams / 159  
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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)).

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Combined Bending and Axial Load.

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

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## Aplikasi Dapodik

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46. Draw structural formulas for the following alcohols, and tell if each is primary, secondary, or tertiary: (a)

1-butanol (b) 2-butanol (c)

3,3-dimethyl-2-butanol (d)

3,3-dimethyl-1-butanol 47. Write the formula, and draw the structure, for each

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