

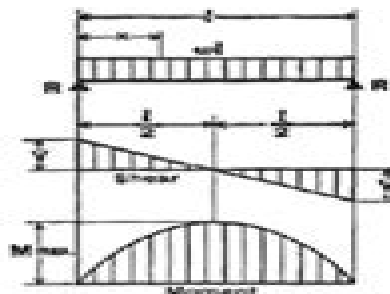
BEAM DIAGRAMS AND FORMULAS

For various static loading conditions

For meaning of symbols, see page 2 - 293

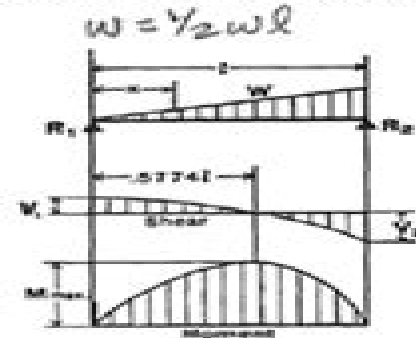
AISC Beam Tables

1. SIMPLE BEAM—UNIFORMLY DISTRIBUTED LOAD



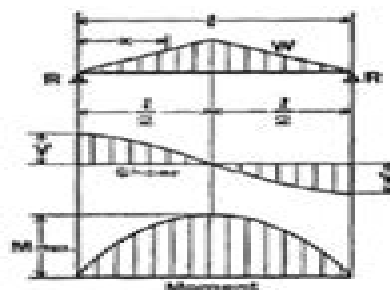
$$\begin{aligned}
 \text{Total Equiv. Uniform Load} &= wl \\
 R = V &= \frac{wl}{2} \\
 V_x &= w \left(\frac{l}{2} - x \right) \\
 M \text{ max. (at center)} &= \frac{wl^2}{8} \\
 M_x &= \frac{wx}{2} (l - x) \\
 \Delta \text{ max. (at center)} &= \frac{5wl^4}{384EI} \\
 \Delta x &= \frac{wx}{24EI} (l^3 - 2lx^2 + x^3)
 \end{aligned}$$

2. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO ONE END



$$\begin{aligned}
 \text{Total Equiv. Uniform Load} &= \frac{15W}{8\sqrt{3}} = 1.0254W \\
 R_1 = V_1 &= \frac{W}{3} \\
 R_2 = V_2 \text{ max.} &= \frac{2W}{3} \\
 V_x &= \frac{W}{3} - \frac{Wx^2}{l^2} \\
 M \text{ max. (at } x = \frac{l}{\sqrt{3}} = .5774l) &= \frac{2Wl}{8\sqrt{3}} = .1283Wl^2 \\
 M_x &= \frac{Wx}{3l^2} (l^3 - x^3) \\
 \Delta \text{ max. (at } x = l\sqrt{1 - \sqrt{\frac{8}{15}}} = .5193l) &= .01304 \frac{Wl^4}{EI} \\
 \Delta x &= \frac{Wx}{180EI l^2} (3x^4 - 10l^2x^2 + 7l^4)
 \end{aligned}$$

3. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO CENTER



$$\begin{aligned}
 \text{Total Equiv. Uniform Load} &= \frac{4W}{3} \\
 R = V &= \frac{W}{2} \\
 V_x \text{ (when } x < \frac{l}{2}) &= \frac{W}{2l^3} (l^3 - 4x^3) \\
 M \text{ max. (at center)} &= \frac{Wl^4}{80EI} \\
 M_x \text{ (when } x < \frac{l}{2}) &= Wx \left(\frac{l}{2} - \frac{2x^3}{3l^2} \right) \\
 \Delta \text{ max. (at center)} &= \frac{Wl^4}{80EI} \\
 \Delta x \text{ (when } x < \frac{l}{2}) &= \frac{Wx}{480EI l^3} (5l^3 - 4x^3)^2
 \end{aligned}$$

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Max Kurtz



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Structural Engineering for Professional Engineers' Examinations Max Kurtz, 1978

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Manual on Connections for Beam and Column Construction J. W. Pask, 1982

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