ARCH 324 - Structures 2, Winter 2009

von Buelow, Peter

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(a) Max Bending Stress @ Max Bending Moment Section:
\[ f = \frac{M_{\text{max}}}{S} = \frac{288 \text{ k-ft} \times 12 \text{ psi}}{154 \text{ in}^3} = 22.44 \text{ ksi} \]

(b) Max Bending Stress @ Section Under the 16 k Loads:
\[ f = \frac{213 \times 12}{154} = 16.60 \text{ ksi} \]