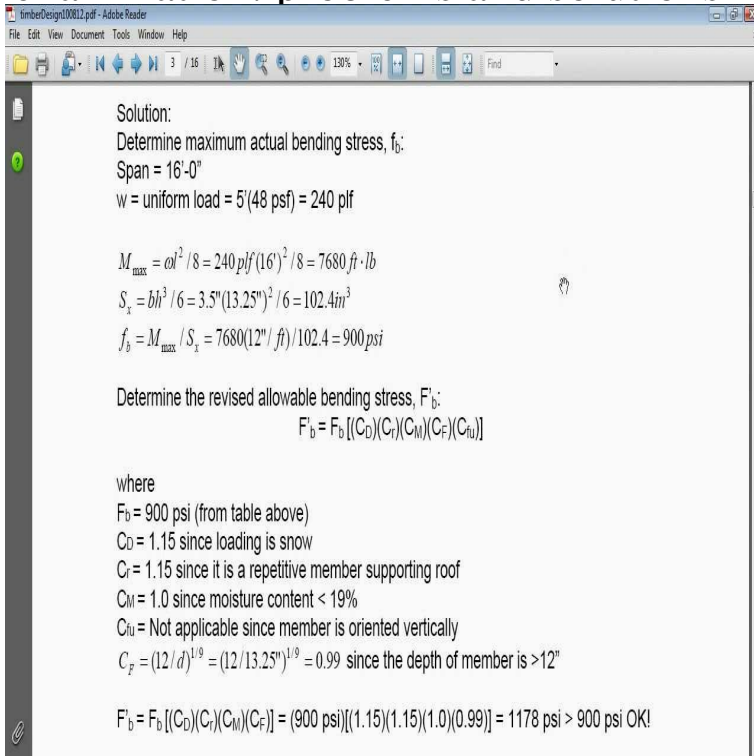


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Solution:
Determine maximum actual bending stress, f_b :
Span = 16'-0"
 w = uniform load = 5'(48 psf) = 240 plf

$$M_{\max} = wl^2 / 8 = 240 \text{ plf} (16')^2 / 8 = 7680 \text{ ft} \cdot \text{lb}$$
$$S_x = bh^3 / 6 = 3.5'' (13.25'')^3 / 6 = 102.4 \text{ in}^3$$
$$f_b = M_{\max} / S_x = 7680 (12'' / \text{ft}) / 102.4 = 900 \text{ psi}$$

Determine the revised allowable bending stress, F'_b :
 $F'_b = F_b [(C_D)(C_T)(C_M)(C_F)(C_{iu})]$

where
 $F_b = 900 \text{ psi}$ (from table above)
 $C_D = 1.15$ since loading is snow
 $C_T = 1.15$ since it is a repetitive member supporting roof
 $C_M = 1.0$ since moisture content < 19%
 C_{iu} = Not applicable since member is oriented vertically
 $C_F = (12/d)^{1.9} = (12/13.25'')^{1.9} = 0.99$ since the depth of member is > 12"

$$F'_b = F_b [(C_D)(C_T)(C_M)(C_F)] = (900 \text{ psi}) [(1.15)(1.15)(1.0)(0.99)] = 1178 \text{ psi} > 900 \text{ psi OK!}$$

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