

2.13

$$V = 51 \text{ m/s}, h = 12 + \frac{5}{2} = 14.5 \text{ m}, z_g = 365.76 \text{ m}, \alpha = 7.0, K_{zt} = 1, K_d = 0.85, \text{ and } K_e = 1.$$

$$K_h = 2.01 \left(\frac{14.5}{365.76} \right)^{2.7} = 0.8$$

$$q_h = 0.613(0.8)(1)(0.85)(1)(51)^2 = 1084.2 \text{ N/m}^2$$

$$G = 0.85$$

$$\text{Roof slope: } \theta = \tan^{-1} (5/6) = 39.8^\circ$$

$$\frac{h}{L} = \frac{14.5}{12} = 1.21$$

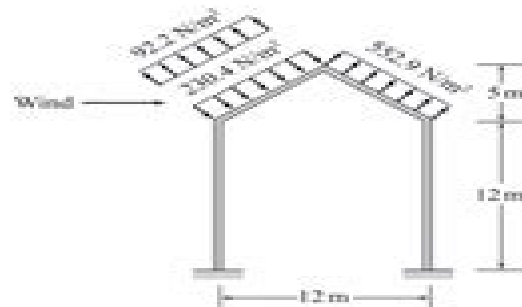
$$C_{pf} = -0.1 \text{ and } 0.25 \text{ for windward side}$$

$$C_{pl} = -0.6 \text{ for leeward side}$$

Thus, the wind pressures are:

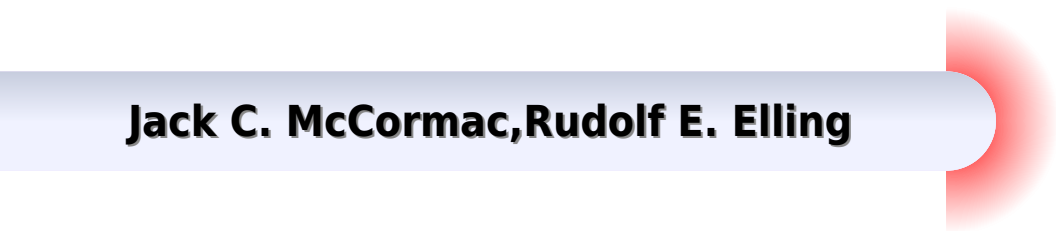
$$\left. \begin{aligned} p_h &= (1084.2)(0.85)(-0.1) = \underline{-92.2 \text{ N/m}^2} \\ p_h &= (1084.2)(0.85)(0.25) = \underline{230.4 \text{ N/m}^2} \end{aligned} \right\} \text{ for windward side}$$

$$p_h = (1084.2)(0.85)(-0.6) = \underline{-552.9 \text{ N/m}^2} \text{ for leeward side}$$



Understanding Structural Analysis Kassimali Solution Manual

Jack C. McCormac, Rudolf E. Elling



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