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CHAPTER 2 - CONCEPTS IN STRUCTURAL STEEL DESIGN

2.1

$D = 30.8 \text{ kips}$, $L = 1.7 \text{ kips}$, $L_c = 18.7 \text{ kips}$, $S = 19.7 \text{ kips}$

Combination 1: $1.4D = 43.12 \text{ kips}$

Combination 2: $1.2D + 0.5L = 19.7 \text{ kips}$

Combination 3: $1.2D + 0.5L_c = 23.05 \text{ kips}$

(a) Combination 3 controls. $P_u = 23.05 \text{ kips}$

(b) Since $P_u \leq \phi P_n$, $\phi P_n = 23.05 \text{ kips}$

(c) $P_u = \phi P_n = 23.05 \text{ kips}$

(d) Combination 3 controls. $P_u = 23.05 \text{ kips}$

(e) $P_u = \phi P_n = 23.05 \text{ kips}$

2.2

$D = 26 \text{ kips}$, $L = 15 \text{ kips}$, $L_c = 8 \text{ kips}$, $R = 5 \text{ kips}$, $W = 8 \text{ kips}$

Combination 1: $1.4D = 36.4 \text{ kips}$

Combination 2: $1.2D + 0.5L = 20.5 \text{ kips}$

Combination 3: $1.2D + 0.5L_c = 16.4 \text{ kips}$

Combination 4: $1.2D + 0.5R = 12.5 \text{ kips}$

Combination 5: $1.2D + 0.5W = 19.4 \text{ kips}$

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