

- 6.54  $F_A = -2,2 \text{ kN}$ ,  $F_{BH} = -3,6 \text{ kN}$ ,  $F_{BV} = 6,2 \text{ kN}$ ,  $M_C = -3,24 \text{ kN}\cdot\text{m}$ ,  
 $M_E = -20,16 \text{ kN}\cdot\text{m}$ ,  $(M_D)_L = -7,2 \text{ kN}\cdot\text{m}$ ,  $(M_D)_D = -16,2 \text{ kN}\cdot\text{m}$ ,  
 $(M_H)_D = -7,2 \text{ kN}\cdot\text{m}$ ,  $(M_H)_d = -6,48 \text{ kN}\cdot\text{m}$ ,  
 $(M_H)_g = (M_H)_D + (M_H)_d = -13,68 \text{ kN}\cdot\text{m}$ ,  $M_A = M_B = M_G = 0$ .
- 6.55  $F_{AH} = 2,5 \text{ kN}$ ,  $F_{AV} = 3,832 \text{ kN}$ ,  $F_B = 5,168 \text{ kN}$ ,  $N_A = -4,57 \text{ kN}$ ,  $Q_A = -0,25 \text{ kN}$ ,  
 $x_m = 1,723 \text{ m}$ ,  $M_b(x_m) = -3,05 \text{ kN}\cdot\text{m}$ ,  $(M_E)_L = -0,5 \text{ kN}\cdot\text{m}$ ,  $(M_E)_D = -5 \text{ kN}\cdot\text{m}$ ,  
 $M_C = -5,5 \text{ kN}\cdot\text{m}$ ,  $M_D = -7,5 \text{ kN}\cdot\text{m}$ ,  $M_A = M_B = 0$ .
- 6.56  $F_{AH} = 3 \text{ kN}$ ,  $F_{AV} = -3 \text{ kN}$ ,  $M_A = 1,4 \text{ kN}\cdot\text{m}$ ,  
 $(M_B)_L = 1,8 \text{ kN}\cdot\text{m}$ ,  $(M_B)_d = 1,8 \text{ kN}\cdot\text{m}$ ,  $(M_B)_D = (M_B)_L + (M_B)_d = 3,6 \text{ kN}\cdot\text{m}$ ,  
 $(M_E)_L = -0,4 \text{ kN}\cdot\text{m}$ ,  $(M_E)_D = 3,6 \text{ kN}\cdot\text{m}$ .
- 6.57  $F_{AH} = ql$ ,  $F_{AV} = \frac{1}{2}ql$ ,  $F_B = \frac{3}{2}ql$ ,  $x_m = l/2$ ,  $M_b(x_m) = -\frac{3}{8}ql^2$ ,  $M_C = -2ql^2$ ,  
 $M_B = -\frac{1}{2}ql^2$ ,  $(M_D)_L = -\frac{3}{2}ql^2$ ,  $(M_D)_d = ql^2$ ,  $(M_D)_D = -\frac{1}{2}ql^2$ .
- 6.58  $F_A = qa = 6 \text{ kN}$ ,  $F_{BH} = qa = 6 \text{ kN}$ ,  $F_{BV} = 0$ ,  $(M_C)_L = 9 \text{ kN}\cdot\text{m}$ ,  $(M_C)_d = -18 \text{ kN}\cdot\text{m}$ ,  
 $(M_C)_D = (M_C)_L + (M_C)_d = -9 \text{ kN}\cdot\text{m}$ ,  $M_D = -9 \text{ kN}\cdot\text{m}$ ,  $M_A = M_B = M_E = 0$ .
- 6.59  $F_A = 4,6 \text{ kN}$ ,  $F_{BH} = -3,25 \text{ kN}$ ,  $F_{BV} = 4,75 \text{ kN}$ ,  
 $x_m = 1,625 \text{ m}$ ,  $M_b(x_m) = -10,36 \text{ kN}\cdot\text{m}$ ,  $M_C = -13 \text{ kN}\cdot\text{m}$ ,  $M_E = -12,25 \text{ kN}\cdot\text{m}$ .  
 $(M_D)_d = 13,75 \text{ kN}\cdot\text{m}$ ,  $(M_D)_L = -17,75 \text{ kN}\cdot\text{m}$ ,  
 $(M_D)_D = (M_D)_L + (M_D)_d = -F \cdot 2 = -4 \text{ kN}\cdot\text{m}$ ,  $(M_H)_d = 4,875 \text{ kN}\cdot\text{m}$ ,  
 $(M_H)_g = (M_H)_d + M = 8,875 \text{ kN}\cdot\text{m}$ .
- 6.60  $F_{AH} = F_{AV} = qa$ ,  $M_A = \frac{1}{2}qa^2$ ,  $M_C = \frac{1}{2}qa^2$ ,  $(M_B)_L = \frac{3}{2}qa^2$ ,  
 $(M_B)_D = (M_B)_L - M = -\frac{1}{2}qa^2$ ,  $M_D = qa^2$ ,  $M_E = 0$ .
- 6.61  $F_{AV} = -F_{BH} = F_{CH} = \frac{3}{4}qa$ ,  $F_{AV} = \frac{7}{4}qa$ ,  $F_{BV} = F_{CV} = \frac{1}{4}qa$ ,  $M_B = M = \frac{1}{2}qa^2$ ,  
 $x_m = a/4$ ,  $M_b(x_m) = \frac{qa^2}{32}$ ,  $M_A = M_C = 0$ ,  $M_D = -\frac{3}{2}qa^2$ ,  $M_E = \frac{3}{4}qa^2$ .
- 6.62  $F_{AH} = 4,5 \text{ kN}$ ,  $F_{AV} = 4 \text{ kN}$ ,  $F_{BH} = F_{CH} = -6,5 \text{ kN}$ ,  $F_{BV} = F_{CV} = 4 \text{ kN}$ ,  
 $(M_D)_L = 4 \text{ kN}\cdot\text{m}$ ,  $(M_D)_D = (M_D)_L + M = 7 \text{ kN}\cdot\text{m}$ ,  $M_E = 11 \text{ kN}\cdot\text{m}$ ,  
 $M_G = 6,5 \text{ kN}\cdot\text{m}$ ,  $M_A = M_B = 0$ ,  $M_C = 0$ ,  $x_m = a$ ,  $M_b(x_m) = 2 \text{ kN}\cdot\text{m}$ .