

## 6 กลศาสตร์โครงสร้าง 1

### บทที่ 5

1.  $F_1 = 1,169.11 \text{ N}$ ,  $F_2 = 1,526.17 \text{ N}$

2.  $F_1 = 1,213.93 \text{ N}$ ,  $F_2 = 1,481.93 \text{ N}$

3.  $T_1 = 112.28 \text{ N}$ ,  $T_2 = 2,195.63 \text{ N}$

4.  $A = 4.55 \text{ kN}$ ,  $B = 0.11 \text{ kN}$

5.  $A = 30.921 \text{ kN}$ ,  $B = 17.49 \text{ kN}$

6.  $F_L = 735.75 \text{ N}$

### บทที่ 6

1.  $\bar{x} = 1 \text{ m}$ ,  $\bar{y} = 1.30 \text{ m}$

2.  $\bar{x} = 0.20 \text{ m}$ ,  $\bar{y} = 0.3375 \text{ m}$

3.  $\bar{x} = 1.78 \text{ m}$ ,  $\bar{y} = 1.25 \text{ m}$

4.  $\bar{x} = 0.625 \text{ m}$ ,  $\bar{y} = 0.884 \text{ m}$

5.  $\bar{x} = 0.732 \text{ m}$ ,  $\bar{y} = 0.75 \text{ m}$

### บทที่ 7

1.  $\bar{I}_x = 0.04627 \text{ m}^4$

2.  $\bar{I}_x = 0.015325 \text{ m}^4$ ,  $\bar{I}_y = 0.170325 \text{ m}^4$

3.  $I_x = 0.00545 \text{ m}^4$

4.  $k_s = 2.887 \text{ cm}$ ,  $k_y = 8.66 \text{ cm}$