

$$\text{I) } \sum K_x = S_1 \cos \alpha_1 - S_2 \cos \alpha_2 - Z \cos \alpha_2 = 0$$

$$\text{II) } \sum K_y = -G - S_1 \sin \alpha_1 + S_2 \sin \alpha_2 + Z \sin \alpha_2 = 0$$

~~$$\text{I) } Z = \frac{S_1 \cos \alpha_1 - S_2 \cos \alpha_2}{\cos \alpha_2} = 2,58 \text{ kN}$$~~

$$\text{II) } G = -S_1 \sin \alpha_1 + S_2 \sin \alpha_2 + Z \sin \alpha_2 = 5,89 \text{ kN} \Rightarrow m = 1000 \frac{\text{kg}}{\text{s}}$$

$$\alpha_2 = 25^\circ$$

$$\alpha_1 = 5^\circ$$

$$S_1 = S_2 = 26 \text{ kN}$$

$$G = 10 \text{ kN}$$

$$Z = 2,5 \text{ kN}$$

