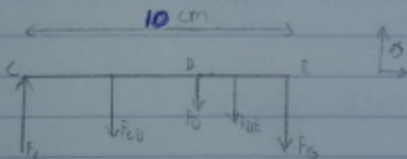


$$F_A = 0.5 \cdot 2 = 0.5 \cdot 9.81 = 4.905 \text{ N}$$

$$F_B = 9 \cdot 2 = 0.009 \cdot 9.81 = 8.8 \cdot 10^{-2} \text{ N}$$



$$F_D = 0.023 = 0.02 \cdot 9.81 = 0.1962 \text{ N}$$

$$F_E = 0.0043 = 0.004 \cdot 9.81 = 0.1079 \text{ N}$$

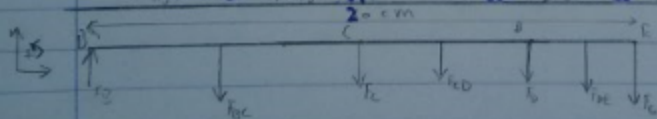
$$\sum F_y = 0 = F_C - F_D - F_E - F_B - F_A$$

$$\sum M_C = F_B \cdot 0.10 - F_D \cdot 0.05 - F_E \cdot 0.05$$

$$= 4.905 \cdot 0.10 - 0.1079 \cdot 0.05 - 8.8 \cdot 10^{-2} \cdot 0.05 = 0.502898 = 5.1 \text{ kg/cm}$$

$$0.502898 = 5.1 \text{ kg/cm}$$

$$0.502898 \text{ N/m} = 7.65 \text{ N/m}$$



$$F_I = 0.0043 = 0.004 \cdot 9.81 = 0.03926 \text{ N}$$

$$F_J = 0.0043 = 0.004 \cdot 9.81 = 0.03926 \text{ N}$$

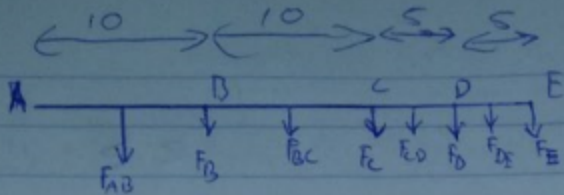
$$\sum F_y = 0 = F_G - F_H - F_I - F_J - F_K - F_L - F_M - F_A$$

$$\sum M_G = 4.905 \cdot 0.2 + 0.1079 \cdot 0.225 + 8.8 \cdot 10^{-2} \cdot 0.225 + 0.1962 \cdot 0.2 + 0.5 \cdot 8.8 \cdot 0.5 + 0.2942 \cdot 0.075 = 1.67297735 \text{ Nm}$$

$$\sum M_G = 4.905 \cdot 0.2 + 0.1079 \cdot 0.225 + 8.8 \cdot 10^{-2} \cdot 0.225 + 0.1962 \cdot 0.25 + 0.5886 \cdot 0.1 + 0.4343 \cdot 0.05 = 2.1 = 11.2 \text{ kg/cm}$$

$$F_{AB} = 0,021 \text{ kg} = 0,21021 \text{ N}$$

$$F_{BC} = F_{AB}$$



$$\begin{aligned} \sum m_A &= F_{AB} \cdot 0,05 + F_B \cdot 0,1 + F_{BC} \cdot 0,15 + F_C \cdot 0,2 + F_D \cdot 0,25 + F_{DE} \cdot 0,275 + F_{CD} \cdot 0,225 + F_E \cdot 0,3 \\ &= 1,792 \text{ Nm} = 18,27 \text{ kg/cm} \end{aligned}$$