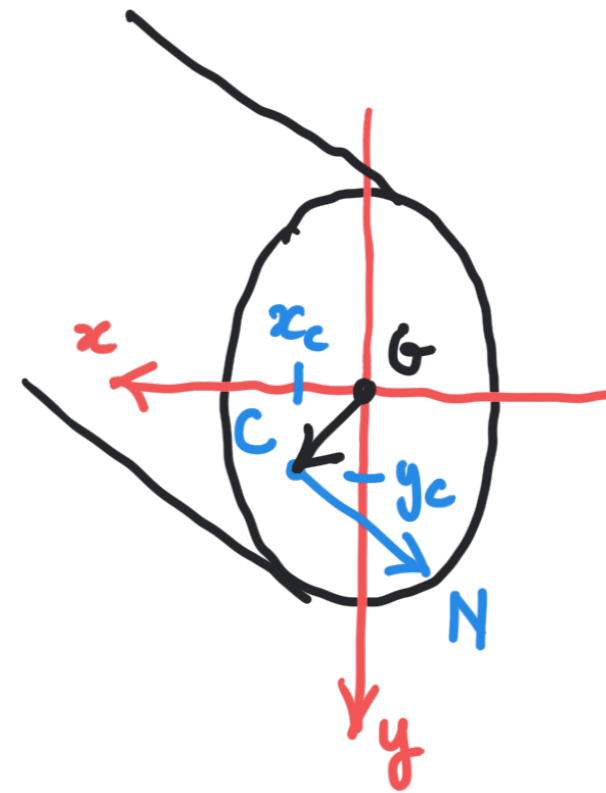
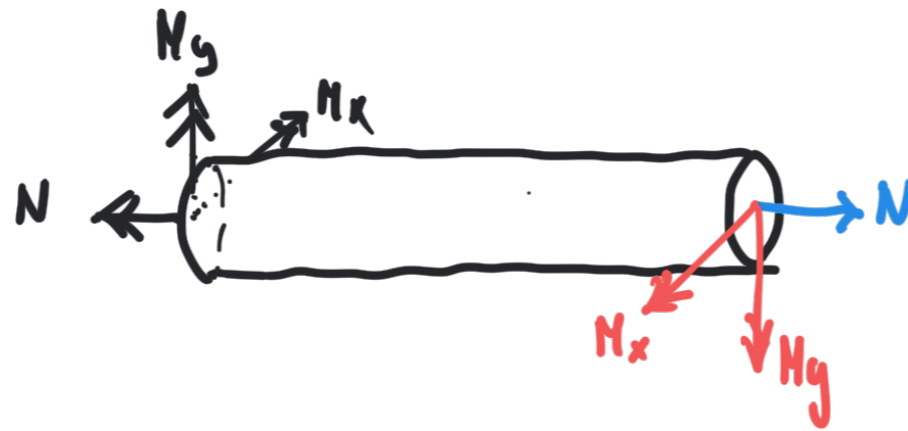


PRESIO/TENSO FLESSIONE DEVIATA
FORZA NORMALE ECCENTRICA



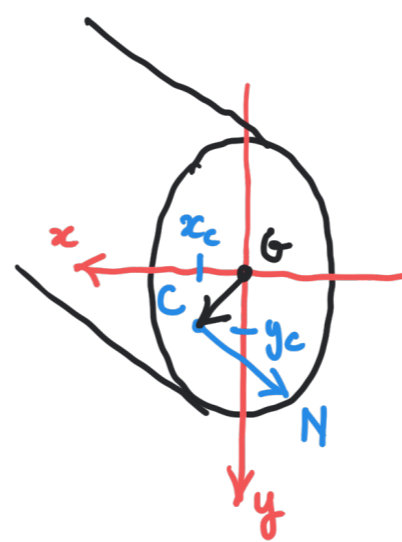
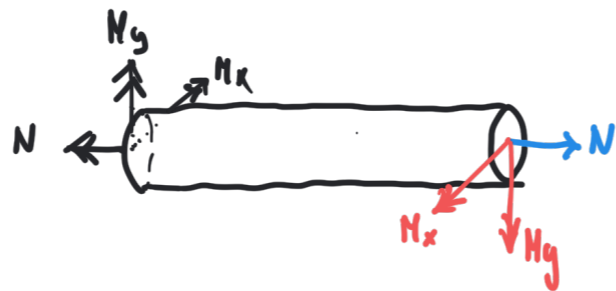
$$\sigma_z = \frac{N}{A} + \frac{M_x}{I_x} y - \frac{M_y}{I_y} x$$

$$x_c = -\frac{M_y}{N} \quad y_c = \frac{M_x}{N} \quad (*)$$

$$\begin{aligned} \underline{M} &= \underline{GC} \times N \underline{k} = (x_c \underline{i} + y_c \underline{j}) \times N \underline{k} \\ &= -x_c N \underline{j} + y_c N \underline{i} \end{aligned}$$

$$M_x = y_c N \quad M_y = -x_c N \Rightarrow (*)$$

PRESIO/TENSO FLESSIONE DEVIATA
FORZA NORMALE ECCENTRICA



$$\sigma_z = \frac{N}{A} + \frac{M_x}{I_x} y - \frac{M_y}{I_y} x$$

$$x_c = -\frac{M_y}{N} \quad y_c = \frac{M_x}{N} \quad (*)$$

$$\begin{aligned} \underline{M} &= \underline{G} \underline{C} \times N \underline{k} = (x_c \underline{i} + y_c \underline{j}) \times N \underline{k} \\ &= -x_c N \underline{j} + y_c N \underline{i} \end{aligned}$$

$$p_x = \sqrt{\frac{I_x}{A}}$$

$$p_y = \sqrt{\frac{I_y}{A}}$$

$$M_x = y_c N \quad M_y = -x_c N \Rightarrow (*)$$

$$\sigma_z = \frac{N}{A} \left(1 + \frac{A}{I_x} \frac{M_x}{N} y - \frac{A}{I_y} \frac{M_y}{N} x \right) = \frac{N}{A} \left(1 + \frac{y_c}{p_x^2} y + \frac{x_c}{p_y^2} x \right)$$

$$1 + \frac{y_c}{p_x^2} y + \frac{x_c}{p_y^2} x = 0 \quad \text{eq. asse neutro}$$

rappresentazione canonica

$$x_n = -\frac{p_y^2}{x_c} \quad y_n = -\frac{p_x^2}{y_c}$$

$$\frac{x}{x_n} + \frac{y}{y_n} = 1 \quad (\text{forma segmentaria})$$

