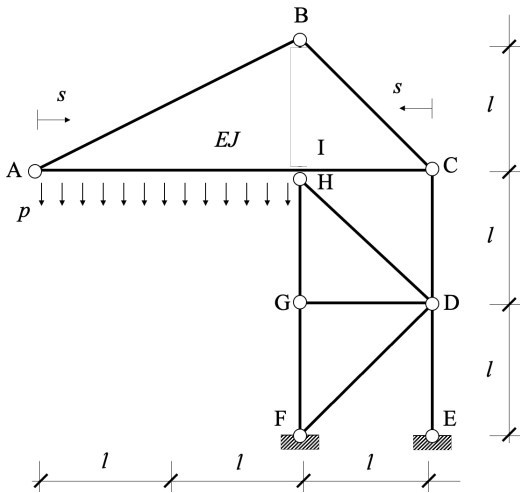


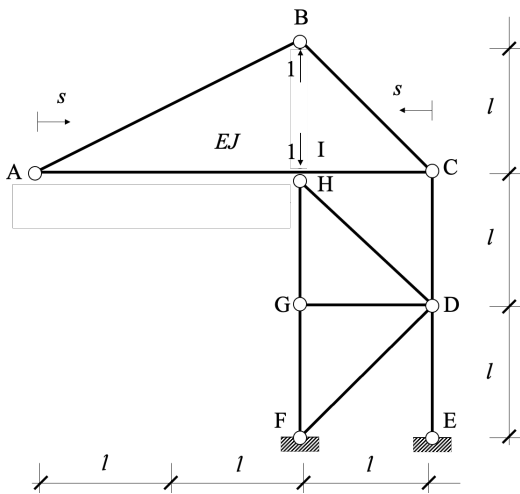
Sistema F0



$$N_{AB} = N_{BC} = N_{DH} = N_{DG} = N_{DF} = 0, \quad N_{DE} = N_{CD} = 2pl, \quad N_{FG} = N_{GH} = -4pl$$

$$N_{AI} = N_{CI} = 0, \quad T_{AI} = -ps, \quad M_{AI} = -\frac{ps^2}{2}, \quad T_{CI} = 2pl, \quad M_{CI} = 2pls$$

Sistema F1



$$N_{CD} = N_{DE} = N_{FD} = N_{GF} = N_{DG} = N_{GH} = N_{DH} = 0, \quad N_{AB} = \frac{\sqrt{5}}{3}, \quad N_{BC} = \frac{2\sqrt{2}}{3}$$

$$N_{AI} = N_{CI} = -\frac{2}{3}, \quad T_{AI} = \frac{1}{3}, \quad M_{AI} = \frac{s}{3}, \quad T_{CI} = -\frac{2}{3}, \quad M_{CI} = -\frac{2s}{3}$$

Incognita iperstatica

$$\eta_{10} = -\frac{10pl^4}{9EJ}, \quad \eta_{11} = \frac{4l^3}{9EJ}, \quad \eta_1 = 0, \quad X_1 = \frac{5pl}{2}$$

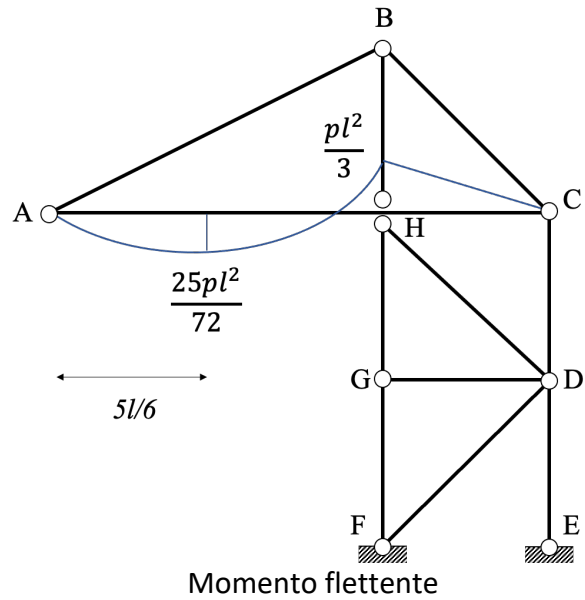
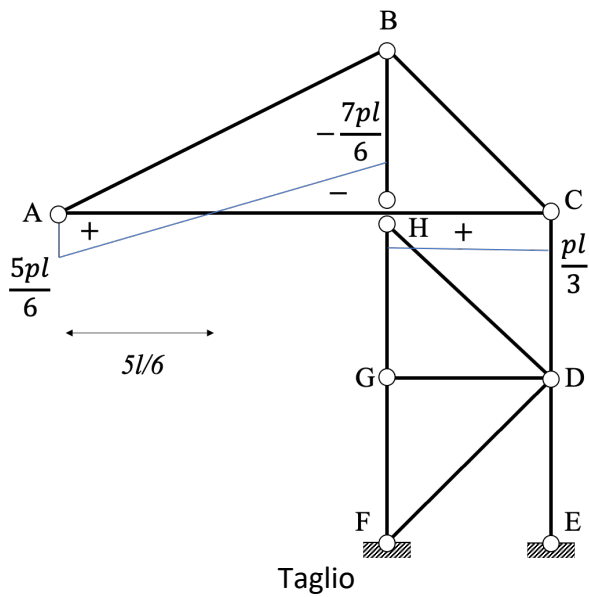
CdS sistema effettivo

$$N_{AB} = \frac{5pl\sqrt{5}}{6}, \quad N_{BC} = \frac{5pl\sqrt{2}}{3}, \quad N_{BI} = -\frac{5pl}{2}, \quad N_{DE} = N_{CD} = 2pl, \quad N_{FG} = N_{GH} = -4pl$$

$$N_{FD} = N_{GD} = N_{DH} = 0$$

$$N_{AI} = -\frac{5pl}{3}, \quad T_{AI} = -ps + \frac{5pl}{6}, \quad M_{AI} = -\frac{ps^2}{2} + \frac{5pls}{6}$$

$$N_{CI} = -\frac{5pl}{3}, \quad T_{CI} = \frac{pl}{3}, \quad M_{CI} = \frac{pls}{3}$$



Nel caso di un difetto di lunghezza dell'asta BI

$$\eta_{10} = -\frac{10pl^4}{9EJ}, \quad \eta_{11} = \frac{4l^3}{9EJ}, \quad \eta_1 = \Delta l_0, \quad X_1 = \frac{5pl}{2} + \frac{9\Delta l_0 EJ}{4l^3}$$

Travi AB e BC anche estensibili

$$\eta_{10} = -\frac{10pl^4}{9EJ}, \quad \eta_{11} = \frac{l^3}{9EJ} \left(4 + \sqrt{5} + \frac{8\sqrt{2}}{5} \right), \quad \eta_1 = 0, \quad X_1 = \frac{10pl}{4 + \sqrt{5} + \frac{8\sqrt{2}}{5}} \approx 1,18pl$$