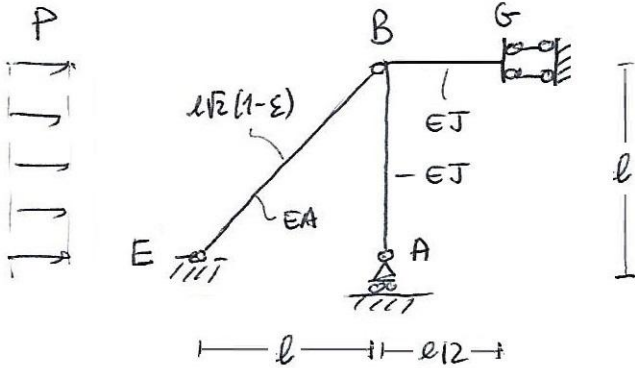
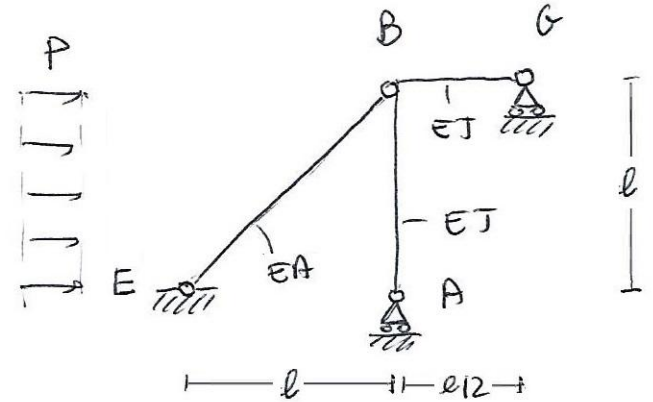


Prova scritta telematica del 27 luglio 2021 - Sintesi soluzione

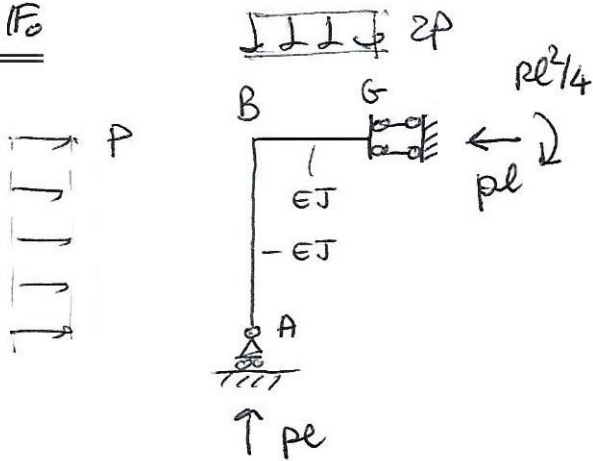
SIM



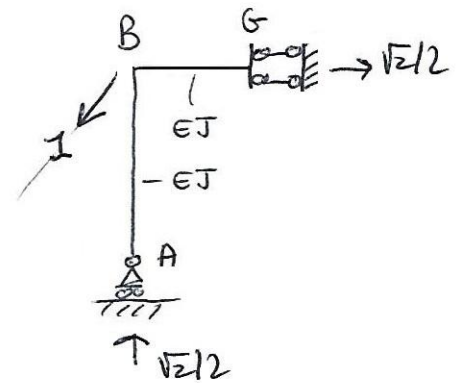
ASIM



SIM/IF₀



SIM/IF₁



$$N_{AB} = -pl$$

$$N_{BG} = -pl$$

$$T_{AB} = -pS$$

$$T_{BG} = p(l-2S)$$

$$M_{AB} = -pS^2/2$$

$$M_{BG} = -\frac{pl^2}{4} - p(l/2 - S)^2$$

$$N_{AB} = -\sqrt{2}l/2$$

$$N_{BG} = \sqrt{2}l/2$$

$$T_{AB} = 0$$

$$T_{BG} = 0$$

$$M_{AB} = 0$$

$$M_{BG} = 0$$

con:

$$\gamma_{10} + X_1 \gamma_{11} = \gamma_1 = -\frac{X_1}{EA} l\sqrt{2} + \epsilon l\sqrt{2}$$

$$\gamma_{10} \cdot 1 = 0$$

$$\gamma_{11} \cdot 1 = 0$$

da cui:

$$X_1 = EA \cdot \epsilon \quad (X_1 = N_{BE})$$