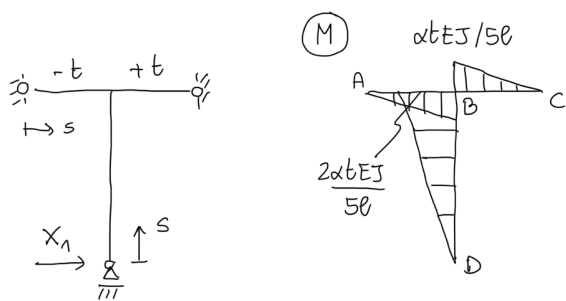


(Docenti: Prof. Ing. Stefano Bennati; Prof. Ing. Riccardo Barsotti)

Prova Scritta telematica del 21 aprile 2022 – Sintesi della soluzione

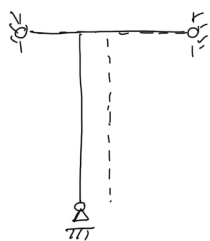


$$\eta_{10} = -\alpha t l, \quad \eta_{11} = \frac{10l^3}{3EJ}, \quad \eta_1 = -\frac{X_1}{k}$$

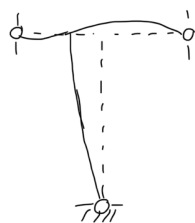
$$X_1 = \frac{\alpha t l}{\frac{10l^3}{3EJ} + \frac{1}{k}} = \frac{\alpha t E J}{5l^2}$$

Deformate

$k = 0$



$k = +\infty$



Spostamento punto D: $\alpha t l / 3$ (orizzontale, verso sinistra)

Rotazione nodo B: $-\alpha t / 15$