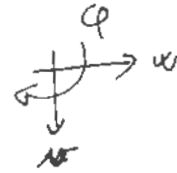


$$K_1 = \frac{12ES}{l^3} = \frac{12R}{l^2}$$

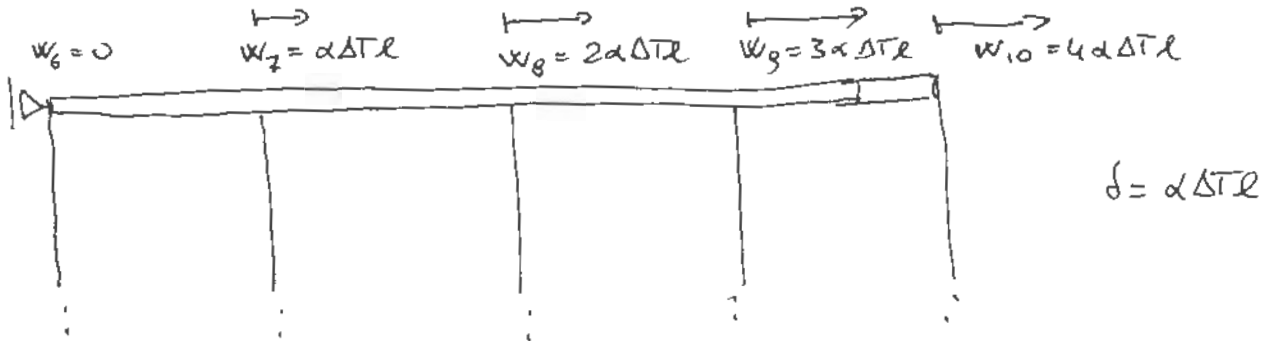
$$K_2 = \frac{2ES}{l} = 2R$$

max. ind.

- $w_6 \sim w_2 \sim w_8 \sim w_9 \sim w_{10}$
- w_1
- φ_5
- w_{11}
- w_{12}
- φ_{12-4}
- φ_{12-5}

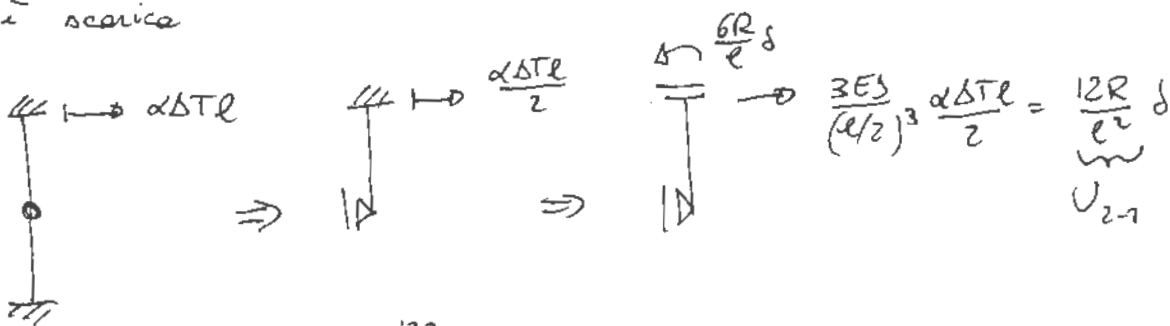


In fase I, vincolato uno fra $w_6 \dots w_{10}$ gli altri sono liberi, dunque le aste verticali possono essere studiate separatamente.

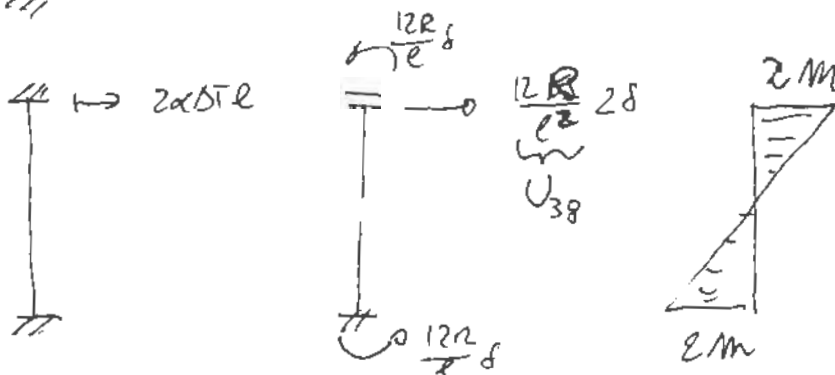


1-6 scarica

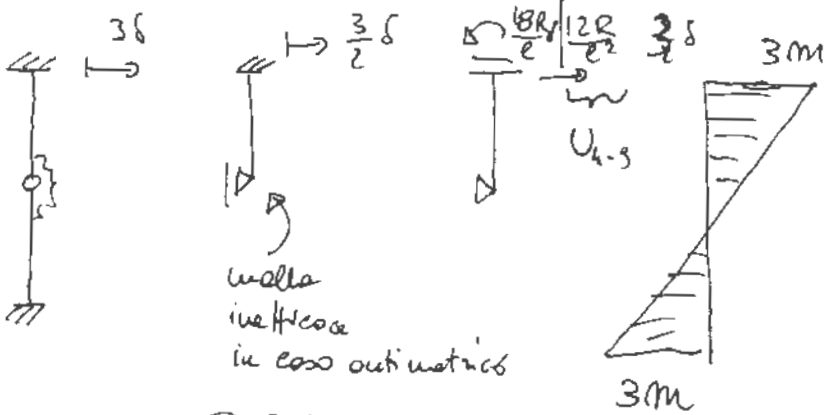
2-7



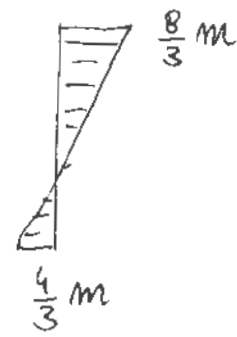
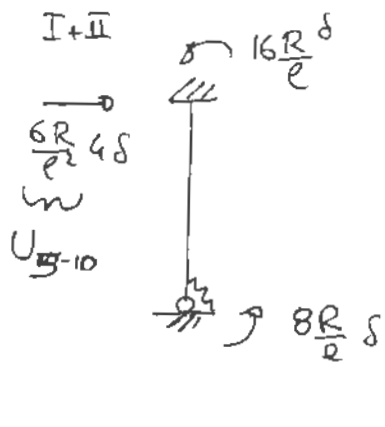
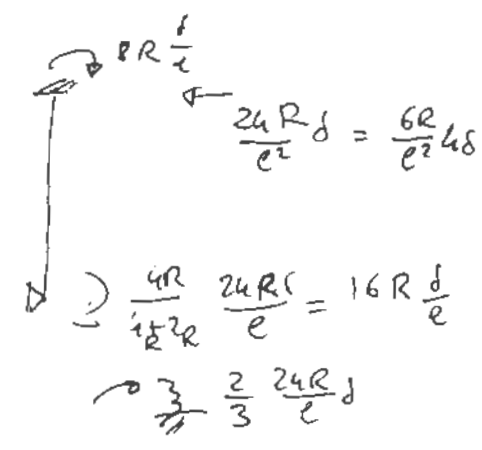
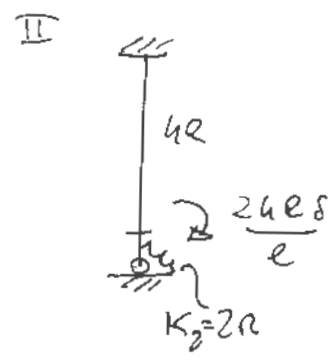
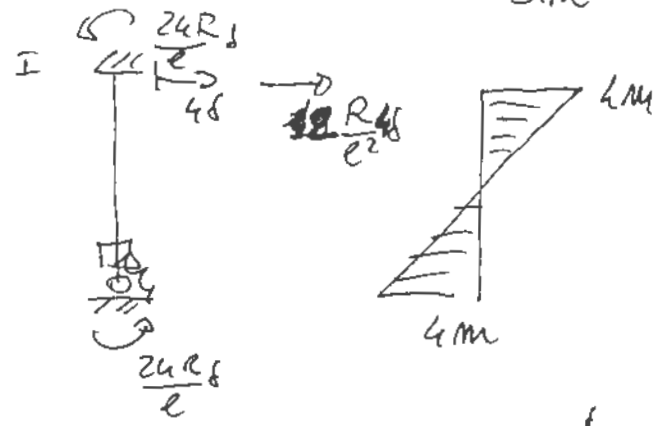
3-8



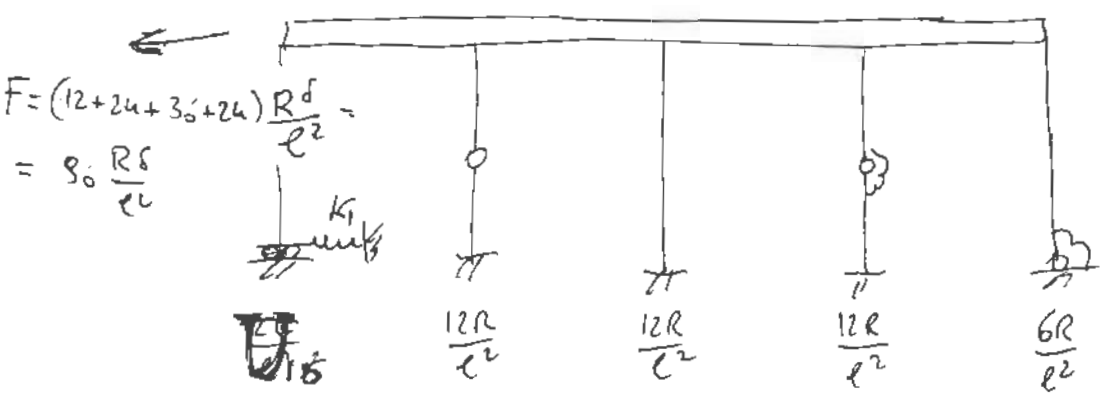
4-9



5-10
5 ottostuthe



for II



$$F = (12 + 24 + 36 + 24) \frac{R\delta}{e} = 96 \frac{R\delta}{e}$$

notonstufte



$$\delta_{tot} = X \left(\frac{l^2}{12R} + \frac{1}{K_1} \right) = X \left(\frac{l^2}{12R} + \frac{l^2}{12R} \right) = \frac{X l^2}{6R} \Rightarrow U_{16} = \frac{6R}{l^2}$$

$$U_{tot} = (6+12+12+12+6) \frac{R}{l^2} = \frac{48R}{l^2}$$

