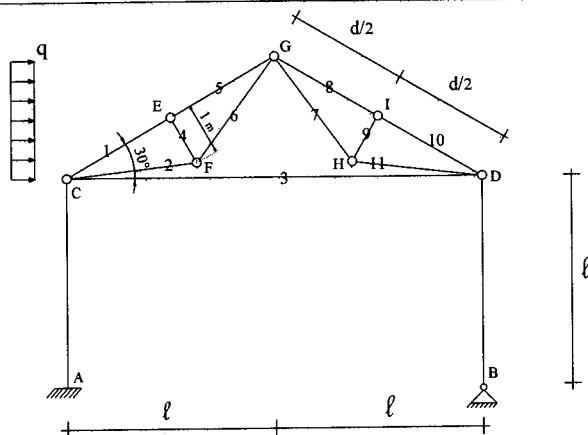


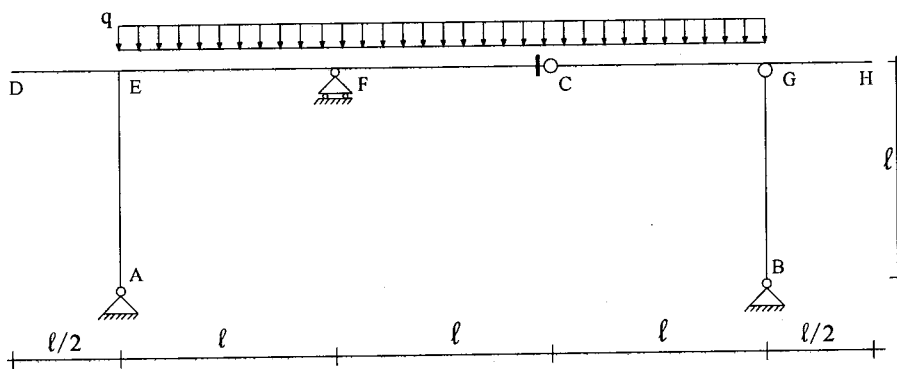
Prova Totale di Scienza delle Costruzioni I
13/02/2014



Dati:

$$l = 4\text{ m} \quad q = 10 \text{ kN/m}$$

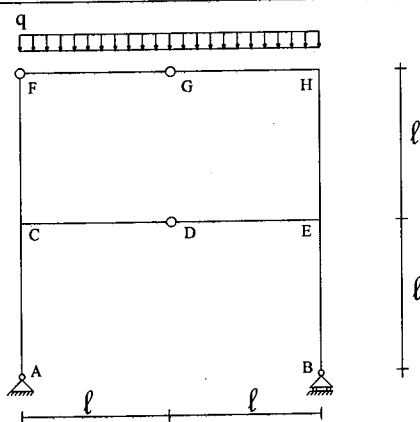
- Calcolare e disegnare le azioni interne N, T, M ;
- Impostare il calcolo dello spostamento orizzontale del nodo G; (considerare la deformabilità assiale delle aste del coperto)



Dati:

$$l = 4 \text{ m} \\ q = 30 \text{ kN/m}$$

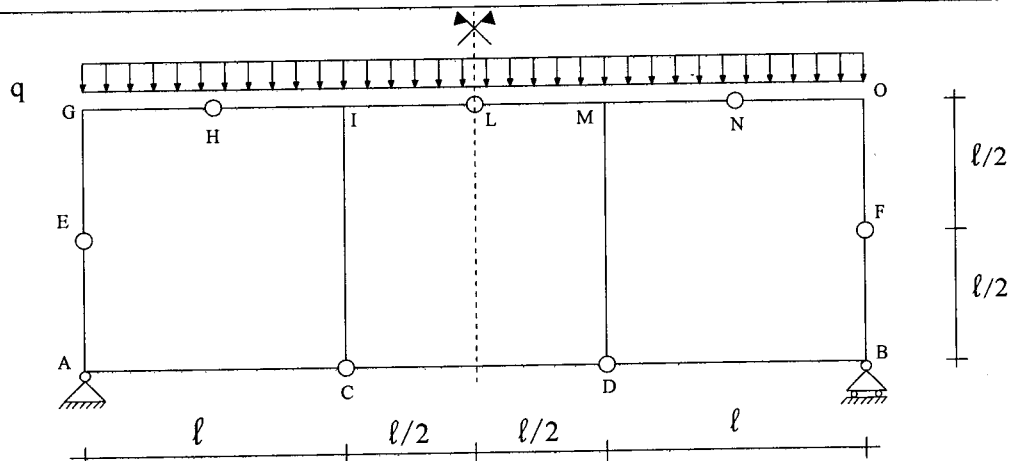
- Calcolare e disegnare le azioni interne N, T, M ;
- Impostare il calcolo della rotazione assoluta del nodo C.



Dati:

$$l = 3 \text{ m} \\ q = 30 \text{ kN/m}$$

- Calcolare e disegnare le azioni interne N, T, M ;
- Impostare il calcolo dello spostamento orizzontale u_n (trascurando la deformabilità assiale delle travi)



Dati:

$$l = 2 \text{ m} \\ q = 20 \text{ kN/m}$$

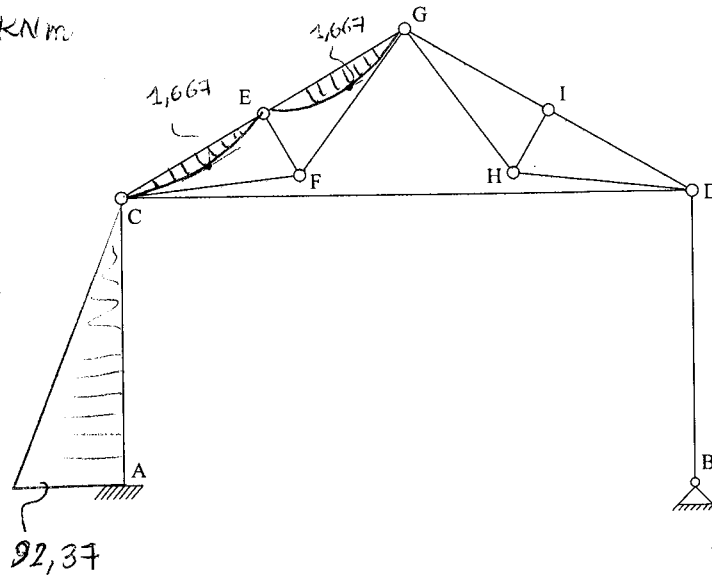
- Calcolare e disegnare le azioni interne N, T, M ;

$$H_A = -23,09 \text{ kN} \quad V_B = 3,33 \text{ kN}$$

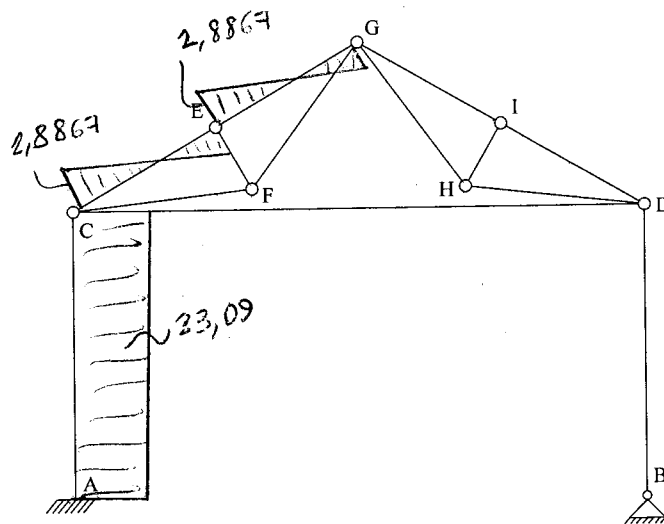
$$V_A = -3,33 \text{ kN}$$

$$M_A = 92,37 \text{ kNm}$$

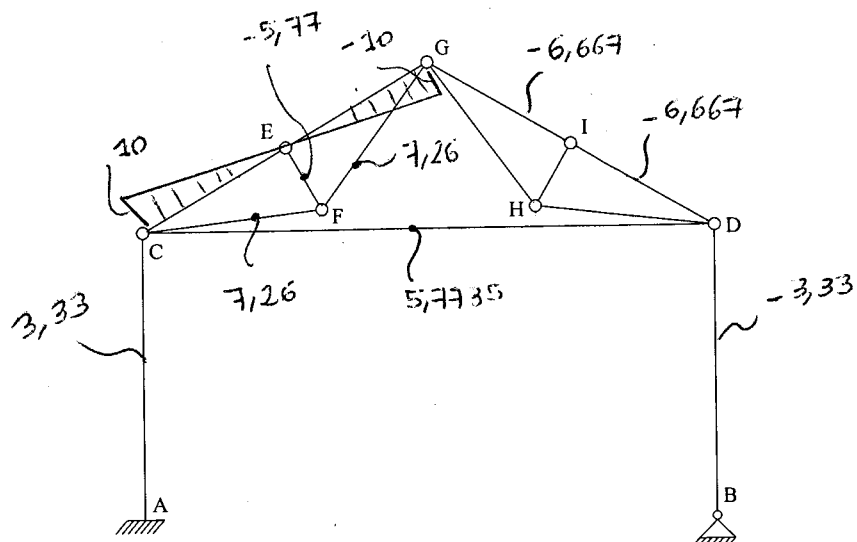
(M)
[kNm]



(T)
[kN]



(N)
[kN]

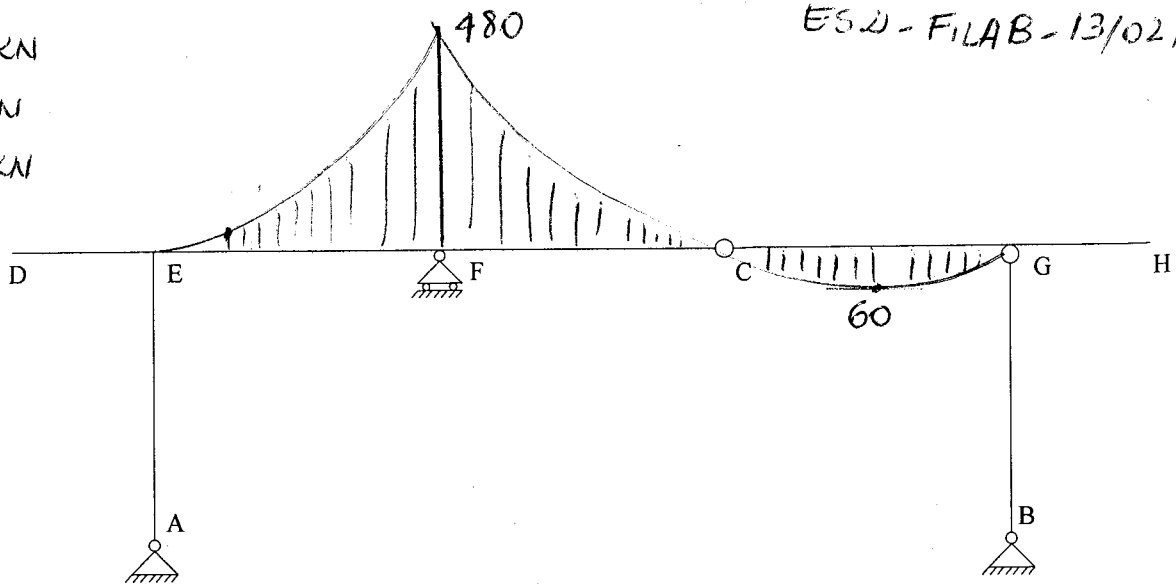


$$V_A = -60 \text{ kN}$$

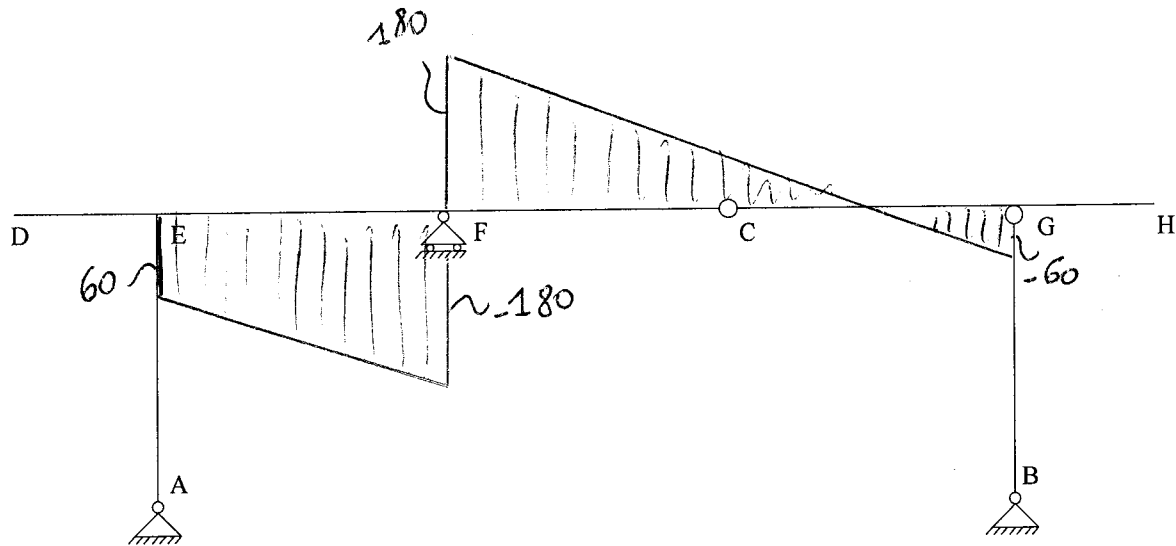
$$V_B = 60 \text{ kN}$$

$$V_F = 360 \text{ kN}$$

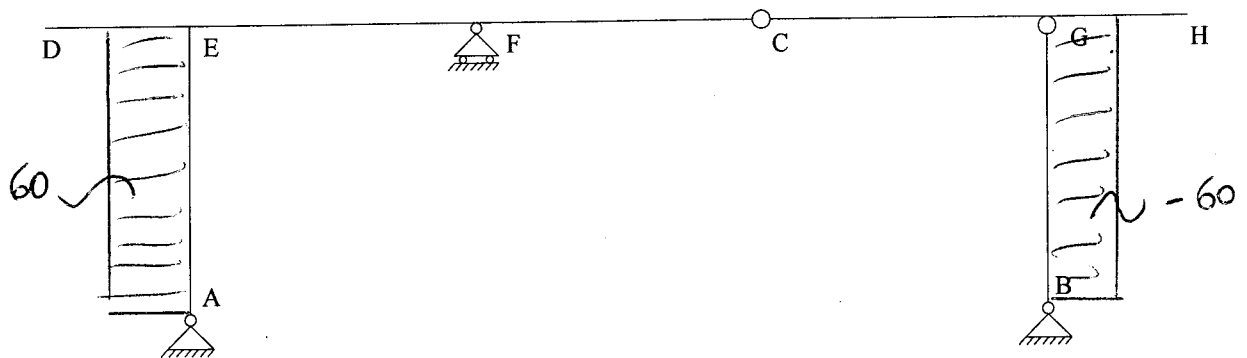
(M)
[kNm]



(T)
[kN]



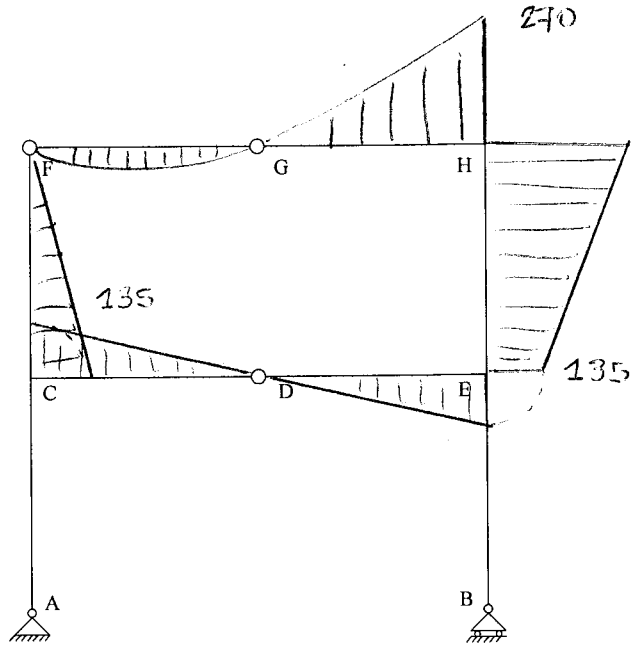
(N)
[kN]



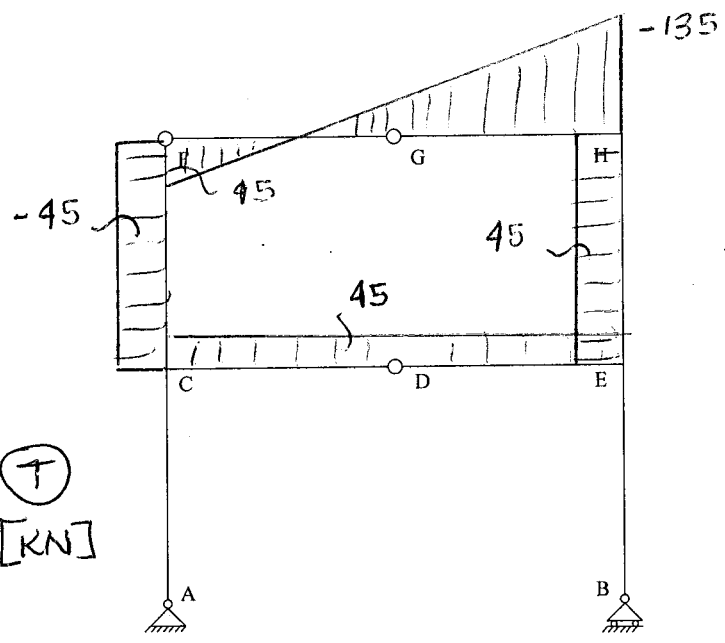
$$V_A = 90 \text{ kN}$$

$$V_B = 90 \text{ kN}$$

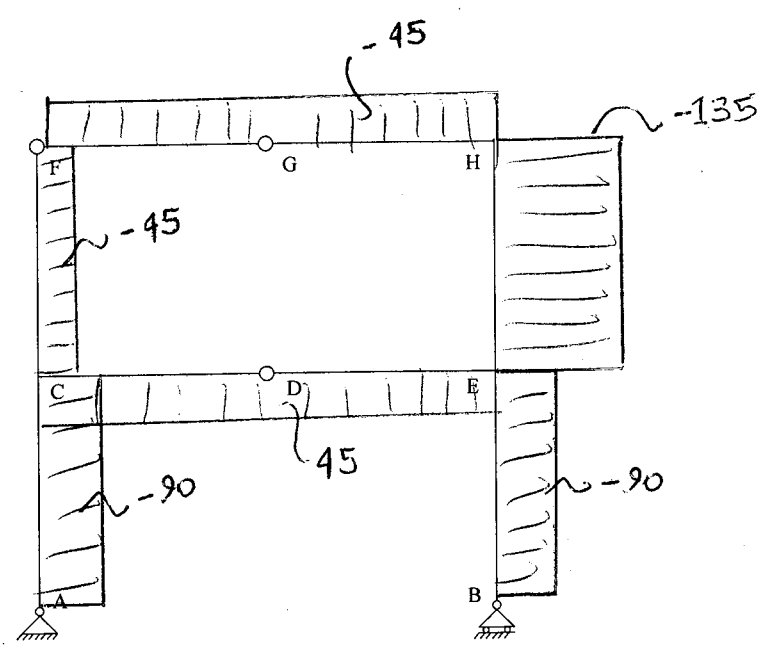
(M)
[KNm]



(T)
[KN]



(N)
[KN]



$V_A = 60 \text{ kN}$
 $V_B = 60 \text{ kN}$

