

Definizione di travatura reticolare

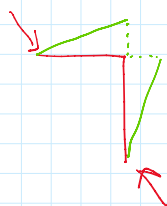
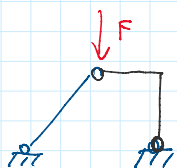
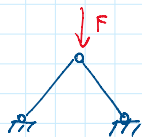
Thursday, November 5, 2020 8:04 AM

In questo corso diremo che un sistema di travi e' di tipo reticolare se

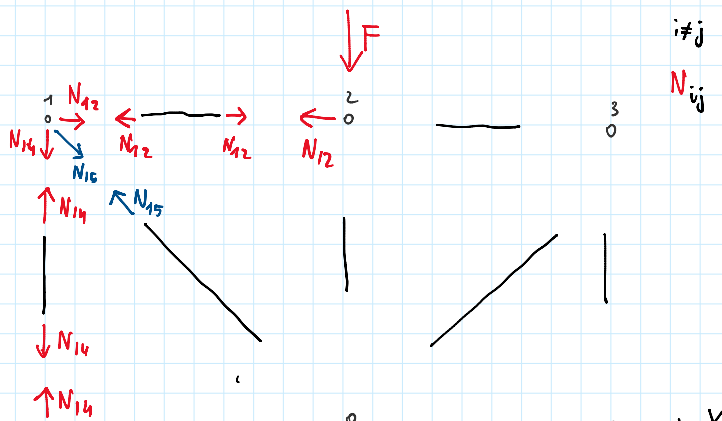
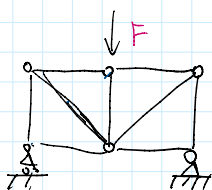
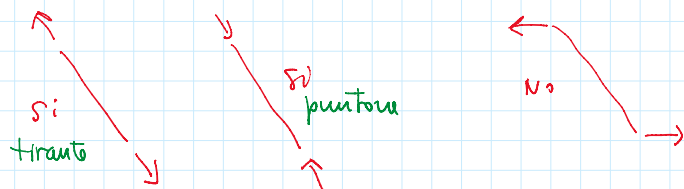
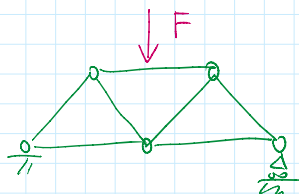
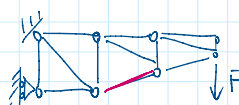
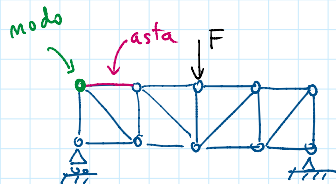
- 1) Le travi che la compongono, dette ASTE, sono connesse esclusivamente con cerniere, dette NODI.
- 2) i vincoli e i carichi sono applicati solo in corrispondenza dei nodi

(si noti che in alcuni testi la condizione 2 non e' esplicitamente imposta)

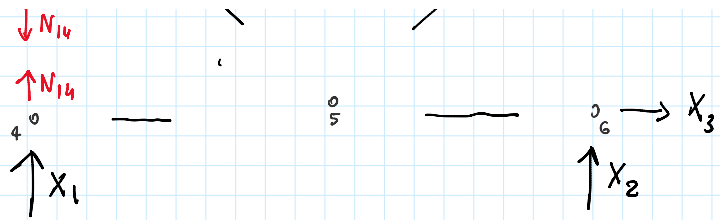
Ad esempio, questa e' una travatura reticolare



Il traliccio in figura e' un esempio di travatura reticolare.



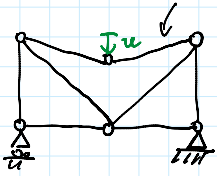
N_{ij} forza normale nell'asta che collega il nodo i con il nodo j .



$$X_2 = X_1 = F/2$$

$$X_3 = 0$$

L'aver soppresso un vincolo rende la struttura labile



$$L_v^e = 0$$

$$Fu + N_{25}u$$

$$u=1 \quad N_{25}=-F$$

Es: determinare la forza nell'asta obliqua 15

