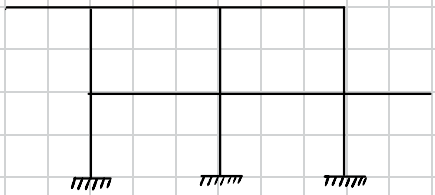
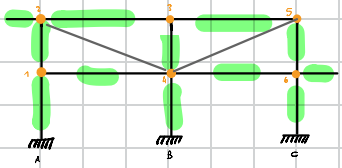
②



- RICONOSCI LA STRUTTURA
- RENDILA ISOSTATICA SENZA RIMUOVERE TRATTI



12 tratti ⟶ GDL = 3·12 = 36 GDL

3 incastri esterni ⟶ GDV = 9

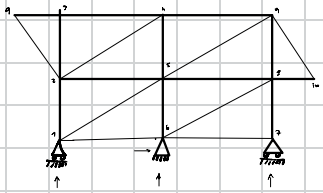
6 cerniere interne ⟶
- 1,2,3 collegano 3 aste: 3×2(n−1) = 12 GDV
- 4,6 collegano 4 aste: 2×2(n−1) = 12 GDV
- 5 collega 2 aste: 2(n−1) = 2 GDV

⇒ 35 GDV

⟹ 35 GDV < 36 GDL ⟶ la struttura è LABILE (1 volta labile)

⟹ rendiamola ISOSTATICA

Mia soluzione (metodo dei nodi)

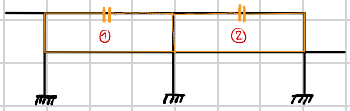


20 tratti = 60 GDL

1-3/3) 2×2 = 8 GDV
2-4-9/6) 4×2 = 14 GDV
5/4) 2(4) = 6 GDV
8/5) 2(4) = 6 GDV
7-9-6/3) 2×2 = 6 GDV

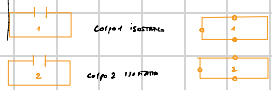
54 GDV + 4 GDV = 58 GDV

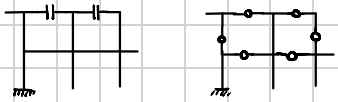
Soluzione proposta dal professore



2 corpi internamente IPERSTATICI

6 volte iperstatico esternamente





ISOSTATICA