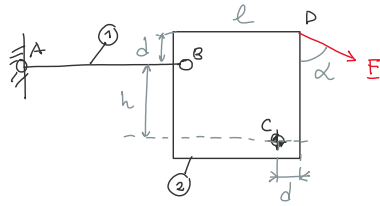


# Esercitazione

giovedì 7 novembre 2024 17:42



Nota:  $l, h, d, \alpha = 45^\circ$

$(D, F)$

TROVARE: DCL DEF.

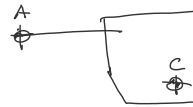
•) AGV. 3 CERNIERE A, B, C  $\Rightarrow -2 \text{ gdl} \times 3 = 6$

$$n \text{ gdl} = \underset{\text{CORPI}}{3 \times 2} - \underset{\text{CER}}{3 \times 2} = 0$$

•) AFV.  $\Rightarrow R_x, R_y \Rightarrow 2 \text{ INCOG} + \text{CERNIERA} \Rightarrow 2 \times 3 = 6 \text{ INCOGNITE RELATIVE}$

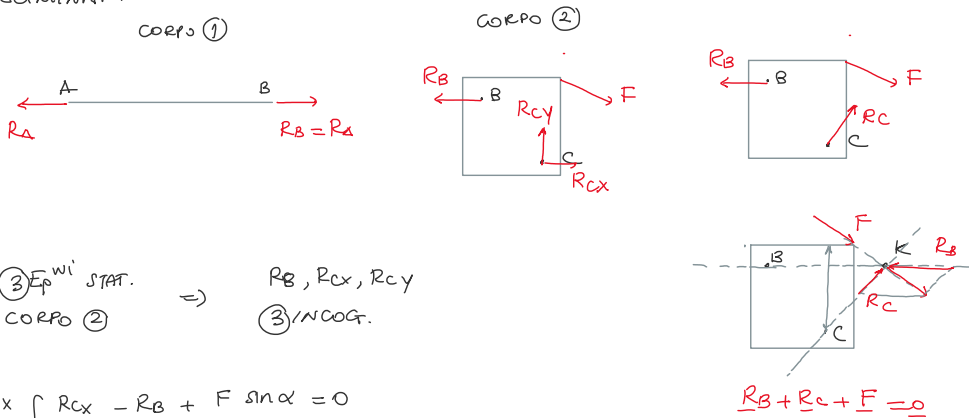
•) SCI? 6 INCOG. =  $\frac{6}{3 \times 2}$  EQUAZ  
(SI)

•) SEI? 4 INCOG. > 3 EQUAZ  
(NO)



•)  $\exists$  CORPI SCARICHI? SÌ, ASTA ①

$\Rightarrow$  DCL PRELIMINARI



③ EP<sup>WI</sup> STAT.  $\Rightarrow R_B, R_{Cx}, R_{Cy}$   
CORPO ② ③ INCOG.

$$\begin{cases} x & R_{Cx} - R_B + F \sin \alpha = 0 \\ y & R_{Cy} - F \cos \alpha = 0 \\ c & R_B h - F \cos \alpha d - F \sin \alpha (h+d) = 0 \end{cases}$$

$$R_{Cy} = F \cos \alpha = F \frac{\sqrt{2}}{2}$$

$$R_B = F \left( \frac{\cos \alpha d + \sin \alpha (h+d)}{h} \right) = F \frac{\sqrt{2}}{2} \left( \frac{h+2d}{h} \right) = F \frac{\sqrt{2}}{2} \left( 1 + 2 \frac{d}{h} \right)$$

$$\begin{aligned} R_{Cx} &= R_B - F \sin \alpha = \frac{F \cos \alpha d + \sin \alpha (h+d)}{h} - F \sin \alpha \\ &= F \frac{\cos \alpha d + \sin \alpha d}{h} = F \frac{d}{h} (\cos \alpha + \sin \alpha) = F \frac{d}{h} \sqrt{2} \end{aligned}$$

DCL DEFINIT.



$$\frac{F\sqrt{2}}{2}(1+2d_n)$$

$$\frac{F\sqrt{2}}{2}(1+2d_n)$$

