Statica dei sistemi di corpi rigidi

venerdì 25 ottobre 2024 11:11



=) puanto valgos le reaz. vinc. per avere epu. statico?

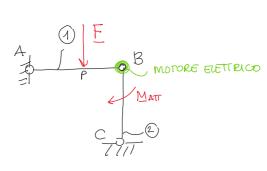
$$ngoll = 2 \times 3 - 2 \times 2 - 1 = 1$$

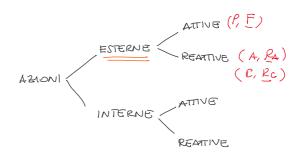
$$LABILE !!$$

Nota un'azione esterna, Volutare un'autra azione esterna che garantisca eleqistatio

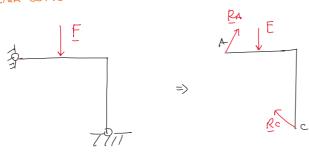
=) note la direzione di Q, trovare l'intensite

AZIONI NEL SCR





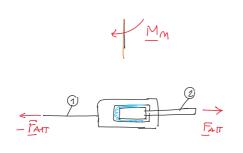
=) SISTEMA COME SINCOLO CORPO

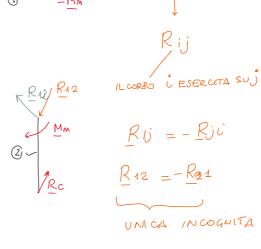


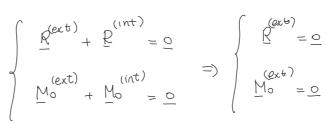
3 AZIONI INTERNE

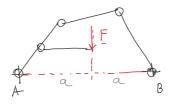
ATTUG

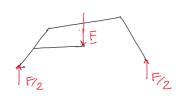
$$\frac{-\underline{\mathsf{M}}_{\mathsf{M}}}{\mathbf{M}}$$



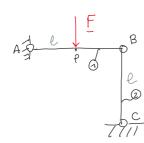








PROCEDURA OI SOWZIONE



Richiesto

- 1) Reas vincolore esterne
- 2) Reaz vinc. interne
- 3) DCL DEF. di ogni corpo

Noto:
$$(P, E)$$

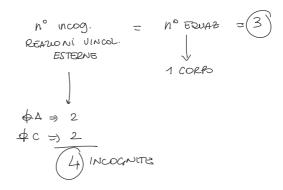
$$\ell = \overline{AB}$$

$$\ell_2 = \overline{AP}$$

ngdl = 2x3 - 3x2 = 0 gdl cer. 0 A, B, C Q (R, R)

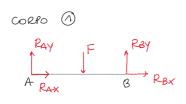
- 2?) SISTEMA E' ESTERALMENTE ISOSTATICO? (NO)
 - L, sistema = 1 corpo evalos





SOW WONE I

·) DCL PEGLIMINARE



OPPO 2 6 INCOGNITE RAX, RAY RBX, RBY

·) Ep STATICA SINGOLO CORPO

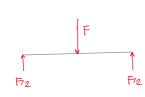
$$\begin{array}{c}
2 \\
-R_{BX} + R_{CX} = 0 \\
-R_{BY} + R_{CY} = 0
\end{array}$$

$$\begin{array}{c}
R_{CX} \ell = 0
\end{array}$$

$$\begin{cases}
R_{AX} = 0 \\
R_{BY} = F_{2}
\end{cases} \qquad \begin{cases}
R_{CX} = 0 \\
R_{BX} = 0 \\
R_{BX} = 0
\end{cases}$$

$$R_{BY} = F_{CY}$$

DCL DEFINITIUI





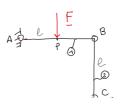
II SOWZIONE

3?)] corp scarcari? -> corp; su cui non a sono acroni attive

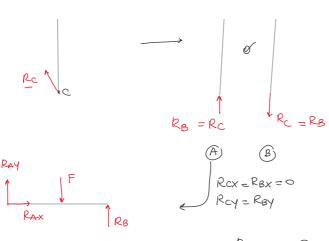
CORPO 2 5 SCARICO





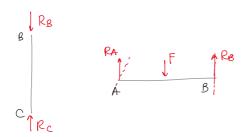


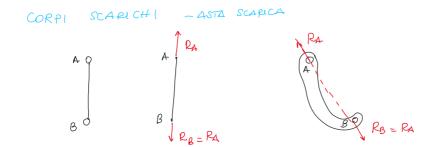




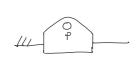
)
$$Ep^{M}$$
 CARD. STAPICA @ => $X \int RAX = 0$
 $A^{5} \int_{-}^{} Fl_{2} + R_{8} l = 0$
 $RAX = 0$

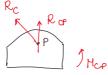
II souwont





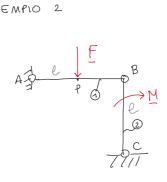
CORSDIO SCARICO



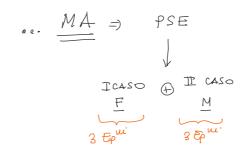


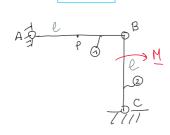


ESEMPIO 2



37) NON & CORPI SCARICHI

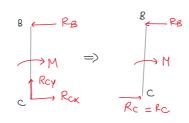




.) DCL CORPS SCARICO (1)



corpo 2



1 MCOG.: RB => c7 + RB & -M =0

RB = RC = RA = M/p

DCL. DEFINITION



DCI DEF. =) I CASO + II CASO

