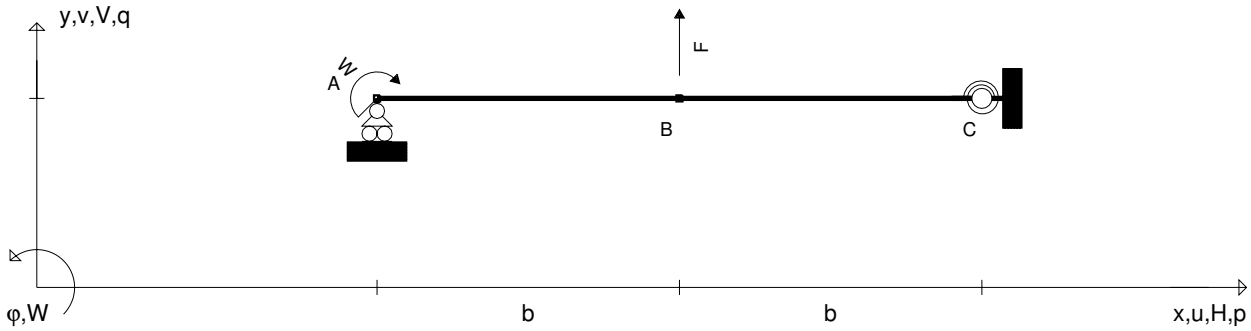
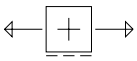
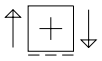
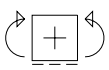


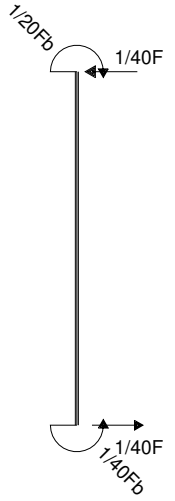
$V_B = F$ $W_A = -W = -Fb$ $k_C = EJ/b$ $EJ_{AB} = EJ$ $EJ_{BC} = EJ$

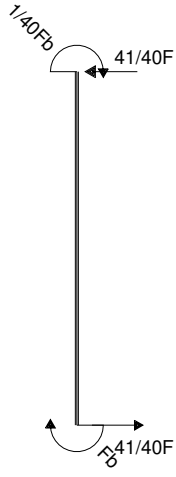
Verso effettivo dei carichi riportato nel disegno.
Calcolare reazioni vincolari della struttura e delle aste.
Tracciare i diagrammi delle azioni interne nelle aste.
Esprimere le funzioni delle azioni interne nelle aste.
Calcolare spostamento e rotazione di tutti i nodi.
u_A v_A φ_A spostamento assoluto del nodo A.
J_{AB} x_{AB} ϑ_{AB} riferimento locale asta AB con origine in A.
<>
<>
<>
<>

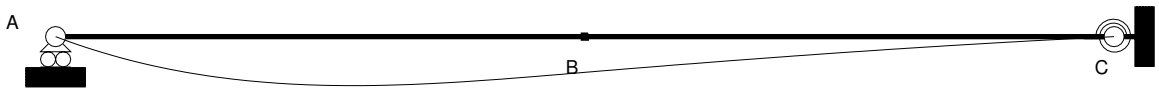




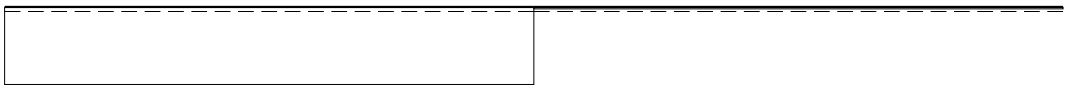


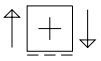

1/20Fb
1/40F
1/40F
1/40Fb


1/40Fb
41/40F
41/40F
Fb

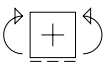


0.15 Fb^3/EJ





1 F



1 Fb

REAZIONI

$V_A = -17/40F -3/5(W/b) = -41/40F$
$H_C = 0$
$V_C = -23/40F +3/5(W/b) = 1/40F$
$W_C = 3/20Fb -1/5W = -1/20Fb$

$H_{AB} = 0$
$V_{AB} = -17/40F -3/5(W/b) = -41/40F$
$W_{AB} = -W = -Fb$
$H_{BA} = 0$
$V_{BA} = 17/40F +3/5(W/b) = 41/40F$
$W_{BA} = -17/40Fb +2/5W = -1/40Fb$

$H_{BC} = 0$
$V_{BC} = 23/40F -3/5(W/b) = -1/40F$
$W_{BC} = 17/40Fb -2/5W = 1/40Fb$
$H_{CB} = 0$
$V_{CB} = -23/40F +3/5(W/b) = 1/40F$
$W_{CB} = 3/20Fb -1/5W = -1/20Fb$

SPOSTAMENTI NODALI

$u_{AAB} = 0$
$v_A = 0$
$\varphi_{AAB} = 1/5(Fb^2/EJ) -3/5(Wb/EJ) = -2/5(Fb^2/EJ)$

$u_B = 0$
$v_B = 31/240(Fb^3/EJ) -1/5(Wb^2/EJ) = -17/240(Fb^3/EJ)$
$\varphi_B = -1/80(Fb^2/EJ) +1/10(Wb/EJ) = 7/80(Fb^2/EJ)$

$u_C = 0$
$v_C = 0$
$\varphi_C = -3/20(Fb^2/EJ) +1/5(Wb/EJ) = 1/20(Fb^2/EJ)$

AZIONI INTERNE (coordinate locali)

$N_{AB} = 0$
$T_{AB} = -41/40F$
$M_{AB} = Fb -41/40Fx$

$N_{BC} = 0$
$T_{BC} = -1/40F$
$M_{BC} = -1/40Fb -1/40Fx$