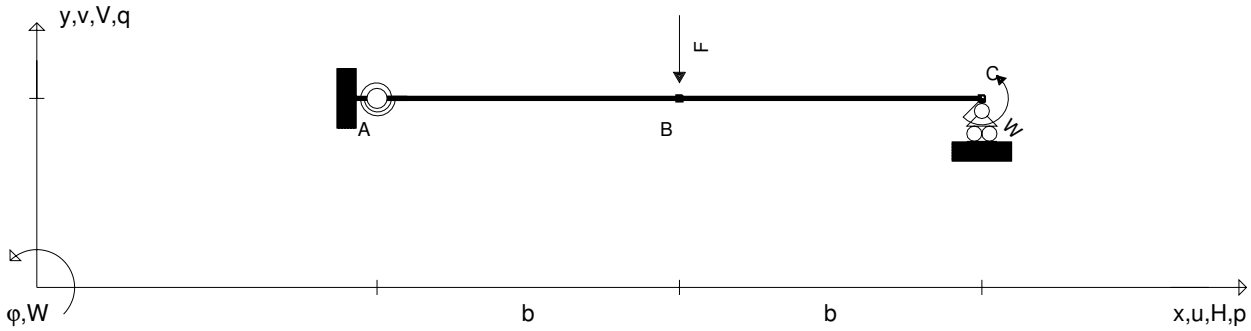
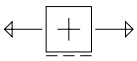
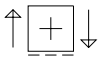
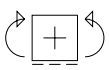


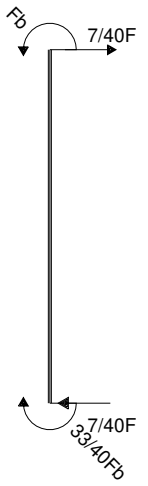
$V_B = -F$ $W_C = W = Fb$ $k_A = EJ/b$ $EJ_{AB} = EJ$ $EJ_{BC} = EJ$

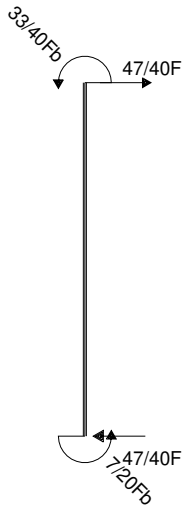
Verso effettivo dei carichi riportato nel disegno.
Calcolare reazioni vincolari della struttura e delle aste.
Tracciare i diagrammi delle azioni interne nelle aste.
Esprimere le funzioni delle azioni interne nelle aste.
Calcolare spostamento e rotazione di tutti i nodi.
u_A v_A φ_A spostamento assoluto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

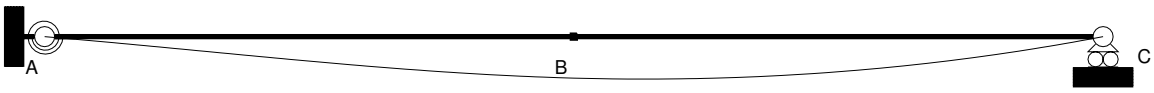




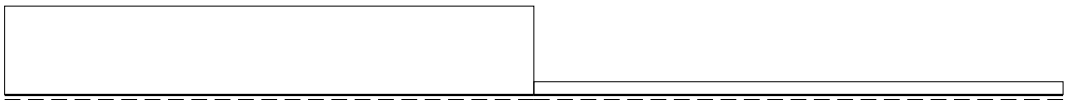


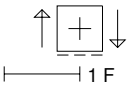

Fb
7/40F
7/40F
33/40Fb

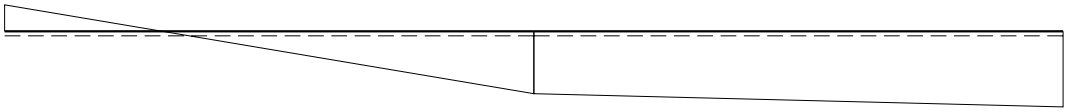

33/40Fb
47/40F
47/40F
7/20Fb

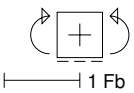



0.6 Fb^3/EJ









REAZIONI

$H_A = 0$
$V_A = 23/40F +3/5(W/b) = 47/40F$
$W_A = 3/20Fb +1/5W = 7/20Fb$
$V_C = 17/40F -3/5(W/b) = -7/40F$

$H_{AB} = 0$
$V_{AB} = 23/40F +3/5(W/b) = 47/40F$
$W_{AB} = 3/20Fb +1/5W = 7/20Fb$
$H_{BA} = 0$
$V_{BA} = -23/40F -3/5(W/b) = -47/40F$
$W_{BA} = 17/40Fb +2/5W = 33/40Fb$

$H_{BC} = 0$
$V_{BC} = -17/40F +3/5(W/b) = 7/40F$
$W_{BC} = -17/40Fb -2/5W = -33/40Fb$
$H_{CB} = 0$
$V_{CB} = 17/40F -3/5(W/b) = -7/40F$
$W_{CB} = W = Fb$

SPOSTAMENTI NODALI

$u_A = 0$
$v_A = 0$
$\varphi_A = -3/20(Fb^2/EJ) -1/5(Wb/EJ) = -7/20(Fb^2/EJ)$

$u_B = 0$
$v_B = -31/240(Fb^3/EJ) -1/5(Wb^2/EJ) = -79/240(Fb^3/EJ)$
$\varphi_B = -1/80(Fb^2/EJ) -1/10(Wb/EJ) = -9/80(Fb^2/EJ)$

$u_{CCB} = 0$
$v_C = 0$
$\varphi_{CCB} = 1/5(Fb^2/EJ) +3/5(Wb/EJ) = 4/5(Fb^2/EJ)$

AZIONI INTERNE (coordinate locali)

$N_{AB} = 0$
$T_{AB} = 47/40F$
$M_{AB} = -7/20Fb +47/40Fx$

$N_{BC} = 0$
$T_{BC} = 7/40F$
$M_{BC} = 33/40Fb +7/40Fx$