

\_\_\_\_\_ :  
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 \_\_\_\_\_ :  
 $M; L; EI = \text{const.}$

1.

2.

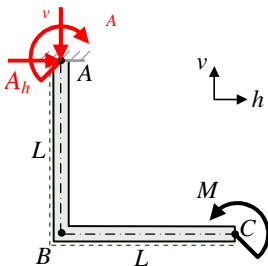
$L$   
 , ...

$Q_z$  ,

$$c = \frac{\partial U}{\partial M} = \int_{L_1} \frac{M_{y1}}{EI} \frac{\partial M_{y1}}{\partial M} dx + \int_{L_2} \frac{M_{y2}}{EI} \frac{\partial M_{y2}}{\partial M} dx. \quad (1)$$

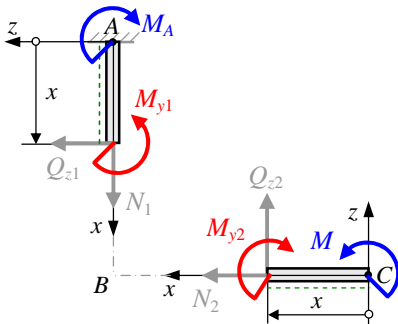
1, 2

3.



$$\begin{aligned} M_{Ai} = 0: & \quad M_A - M = 0; & \quad M_A = M. \\ h_i = 0: & & \quad A_h = 0. \\ v_i = 0: & & \quad A_v = 0. \end{aligned}$$

4.



4.1. ( AB ),  $x \in [0; L]$   
 $M_{yi} = 0: \quad N_1 - M_A = 0; \quad M_{y1} = M; \quad M_{y1}' = 1.$

4.2. ( BC ),  $x \in [0; L]$   
 $M_{yi} = 0: \quad N_2 - M_A = 0; \quad M_{y2} = M; \quad M_{y2}' = 1.$

5.

(1)

$$c = \frac{1}{EI} \int_0^L M_{y1} \frac{\partial M_{y1}}{\partial M} dx + \frac{1}{EI} \int_0^L M_{y2} \frac{\partial M_{y2}}{\partial M} dx = \frac{2}{EI} \int_0^L M \cdot 1 \cdot dx = \frac{2ML}{EI}.$$