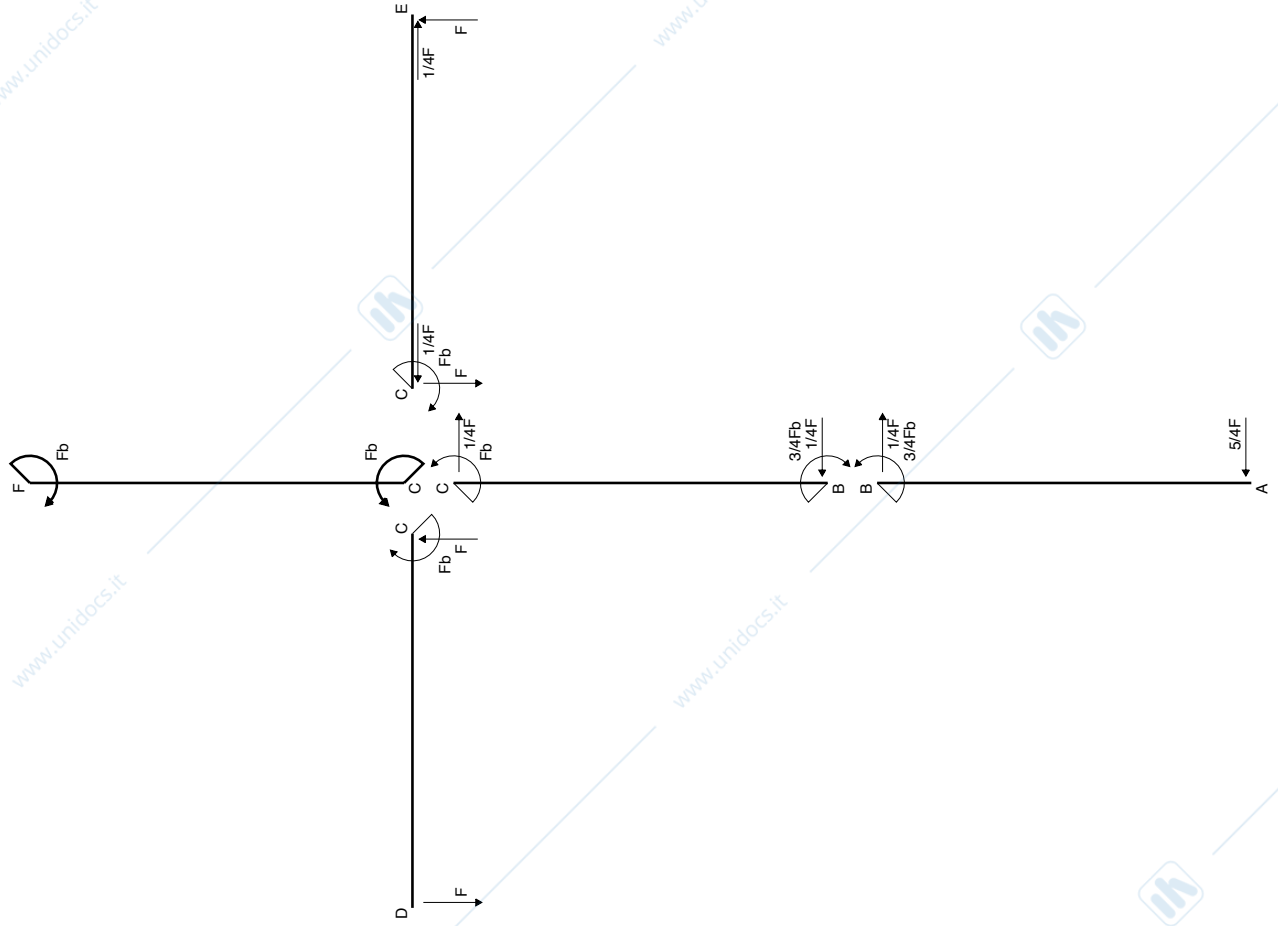
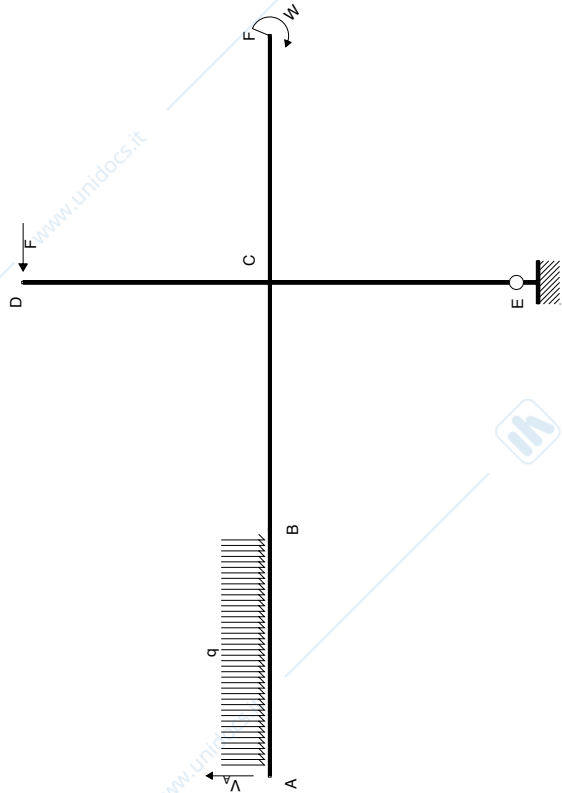


SMMS.001

REAZIONI Nome:

SMMS.001

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a E  
 $-2V_{A,b} = -2F_b + W - 3/2qb^2$

Matrice di equilibrio

$$[V_{A,b}] = \begin{bmatrix} F_b & W & qb^2 \\ -2 & 1 & -3/2 \end{bmatrix}$$

Soluzione del sistema

$$[V_{A,b}] = \begin{bmatrix} F_b & W & qb^2 \\ 1 & -1/2 & 3/4 \end{bmatrix}$$

SMMS.001

PROCEDIMENTO E RISULTATI Nome:

SMMS.001

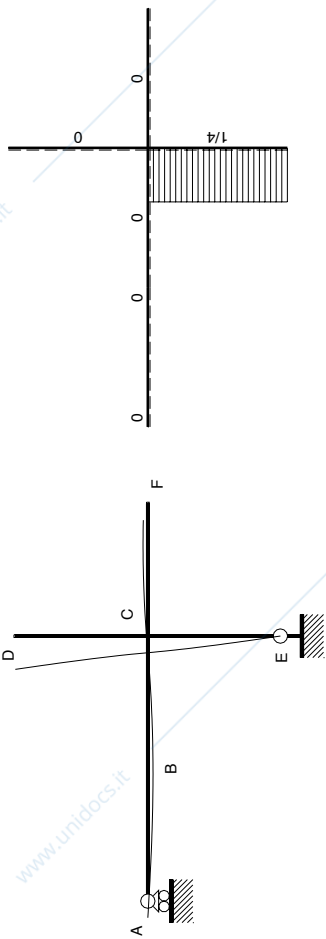
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

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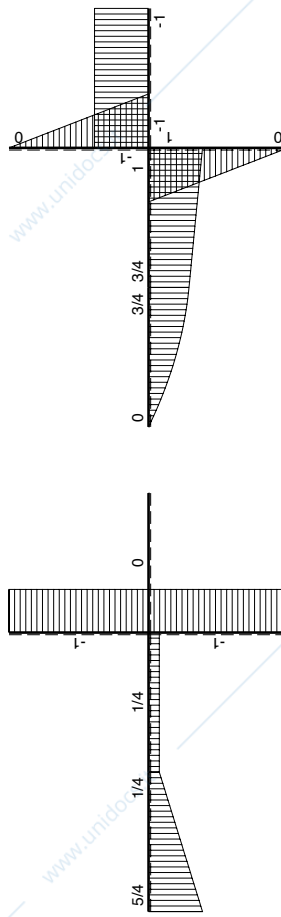
23.10.23

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$$\left[ \begin{array}{c} \leftarrow \\ \oplus \\ \rightarrow \end{array} \right] F$$

$$I = 15 Fb^3/EJ$$



$$\left[ \begin{array}{c} \oplus \\ \downarrow \\ \oplus \end{array} \right] F_b$$

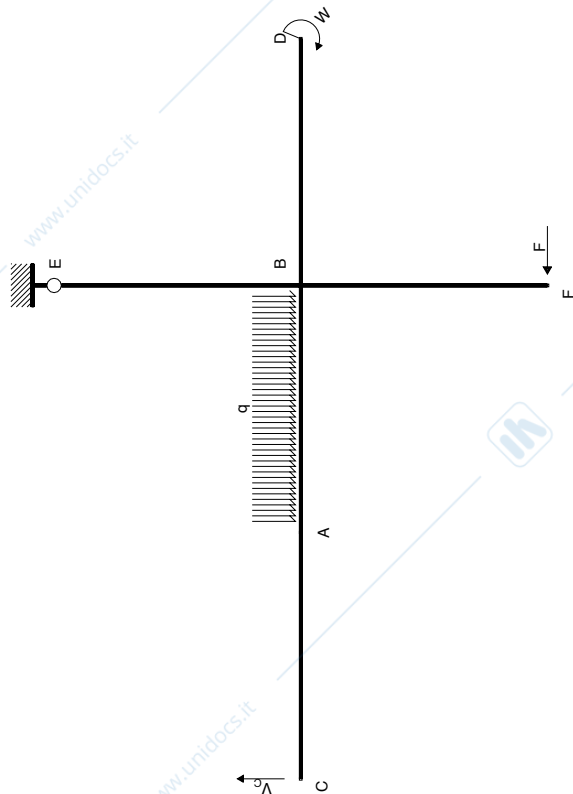
$$I \downarrow F$$

EQUILIBRIO Nome:

SMMS.002

REAZIONI Nome:

SMMS.002



EQUAZIONI DI EQUILIBRIO

Rotazione globale intorno a E

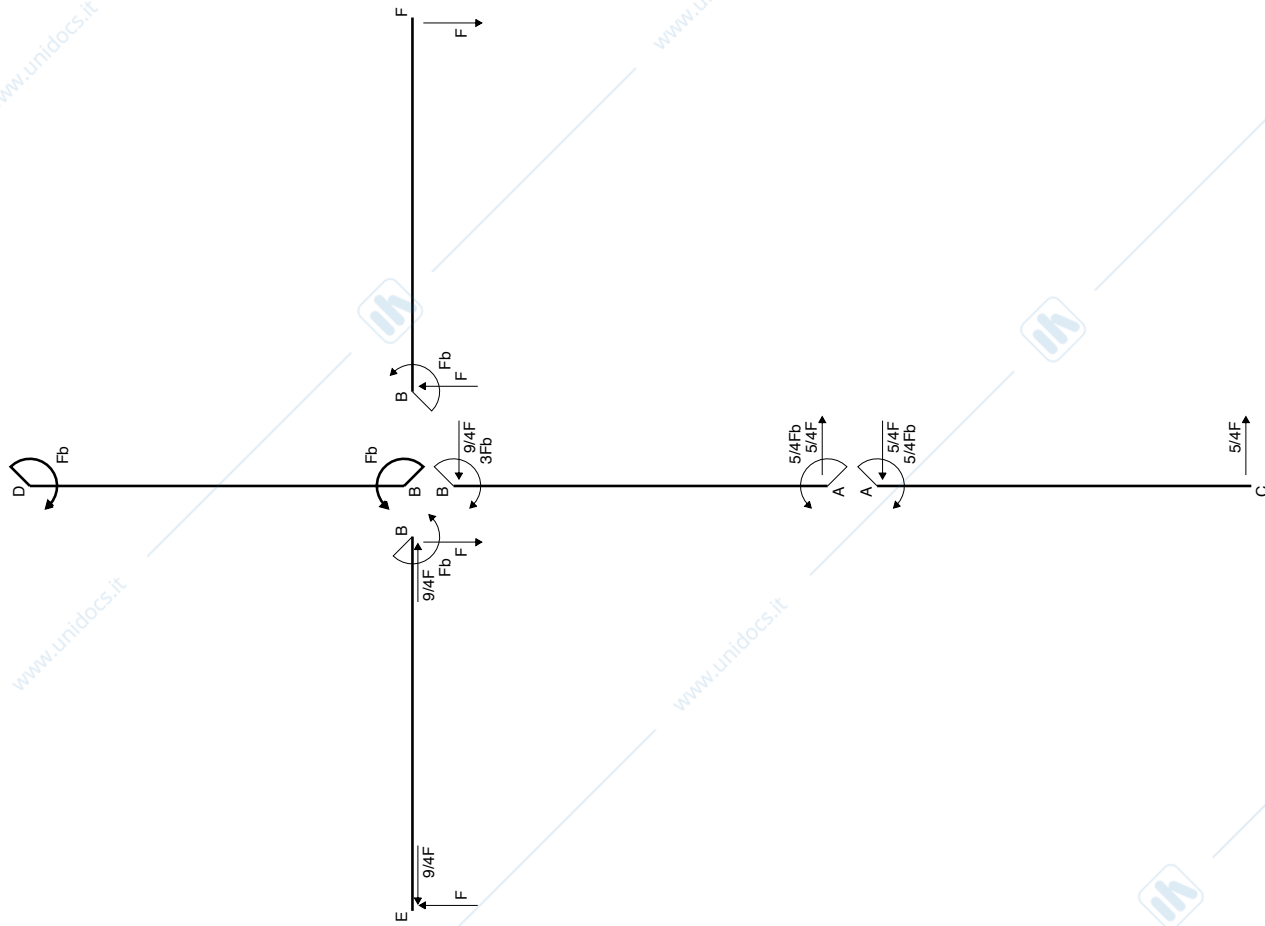
$$-2V_{c,b} = 2F_b + W - 1/2qb^2$$

Matrice di equilibrio

$$[V_{c,b}] \begin{bmatrix} F_b & W & qb^2 \\ -2 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} F_b & W & qb^2 \\ [V_{c,b}] & = & \begin{bmatrix} -1 & -1/2 & 1/4 \end{bmatrix} \end{bmatrix}$$



SMMS.002

PROCEDIMENTO E RISULTATI Nome:

SMMS.002

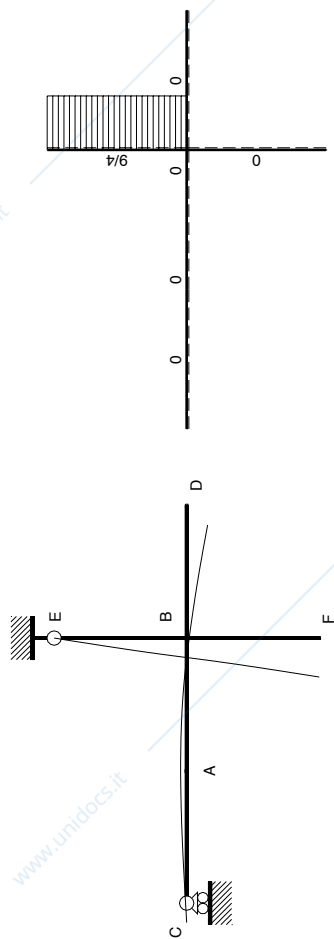
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

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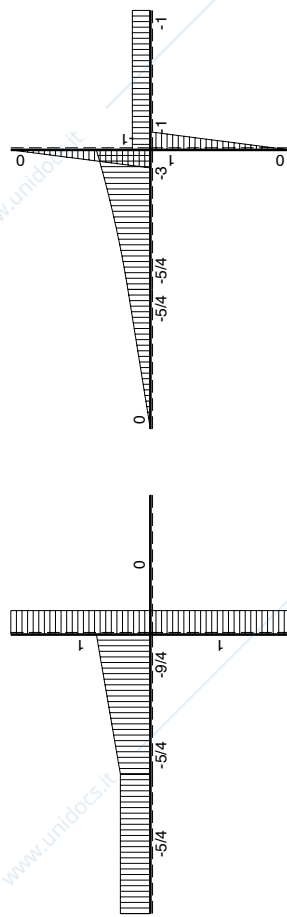
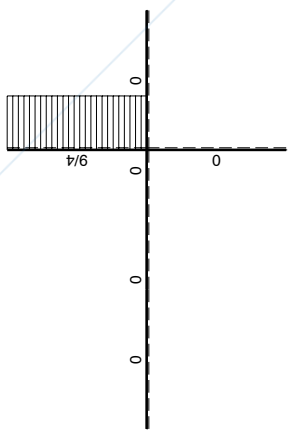
23.10.23

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$$\leftarrow \boxed{+} \rightarrow F$$

$$| - 18 Fb^3/EJ$$



$$\curvearrowright \boxed{+} Fb$$

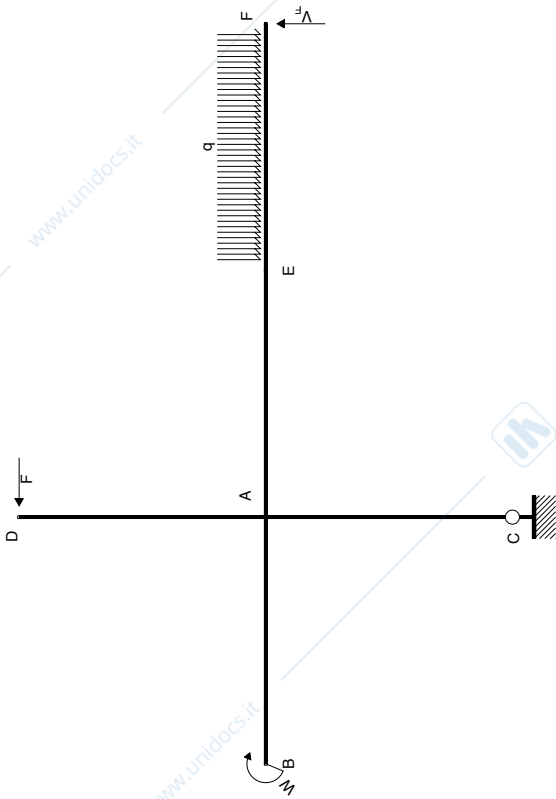
$$\uparrow \boxed{+} \downarrow F$$

SMMS.003

REAZIONI Nome:

SMMS.003

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a C

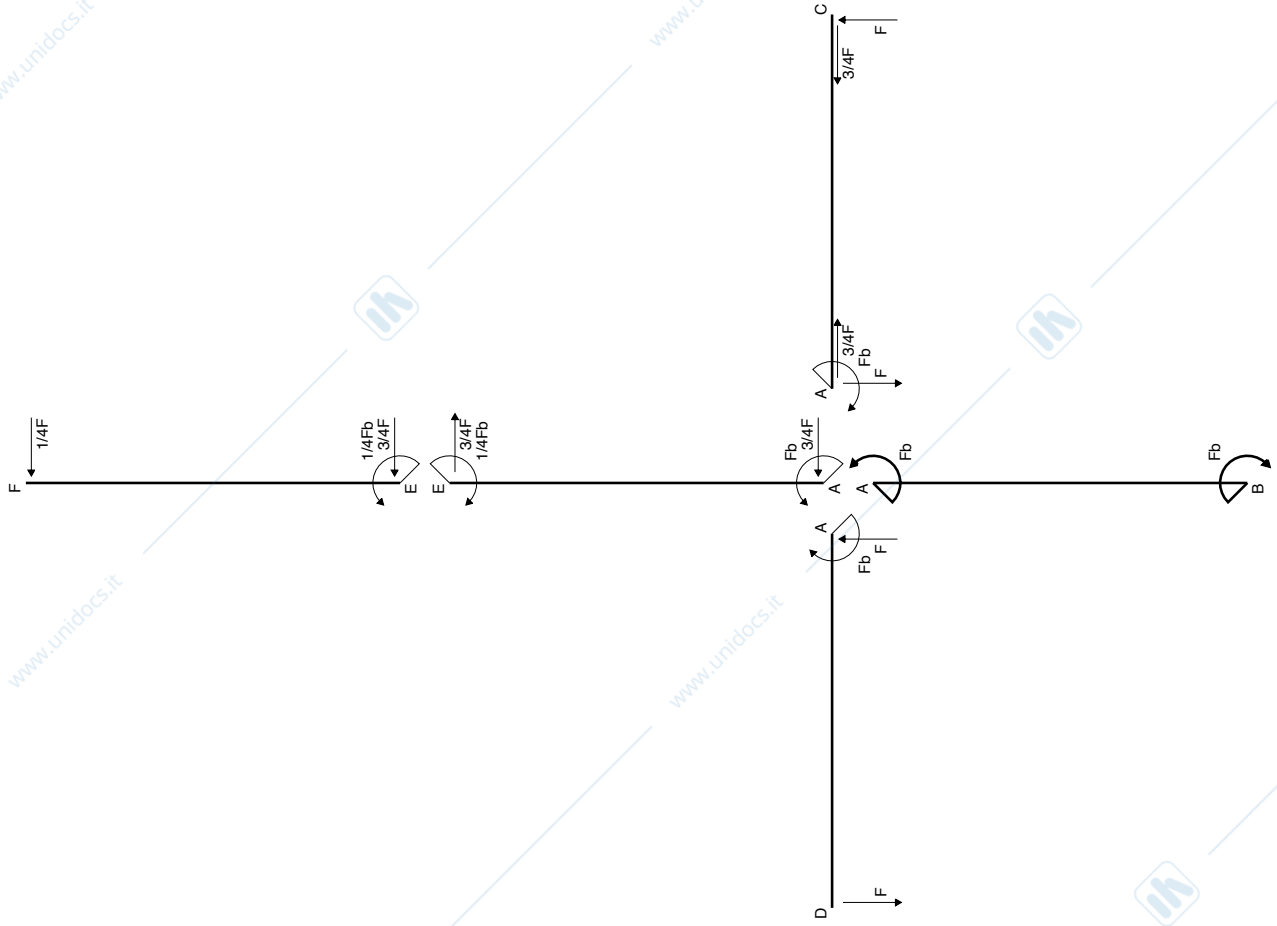
$$2V_{Fb} = -2Fb + W + 3/2qb^2$$

Matrice di equilibrio

$$[V_{Fb}] \begin{bmatrix} Fb & W & qb^2 \\ -2 & 1 & 3/2 \end{bmatrix}$$

Soluzione del sistema

$$[V_{Fb}] = \begin{bmatrix} Fb & W & qb^2 \\ -1 & 1/2 & 3/4 \end{bmatrix}$$



SMMS.003

PROCEDIMENTO E RISULTATI Nome:

SMMS.003

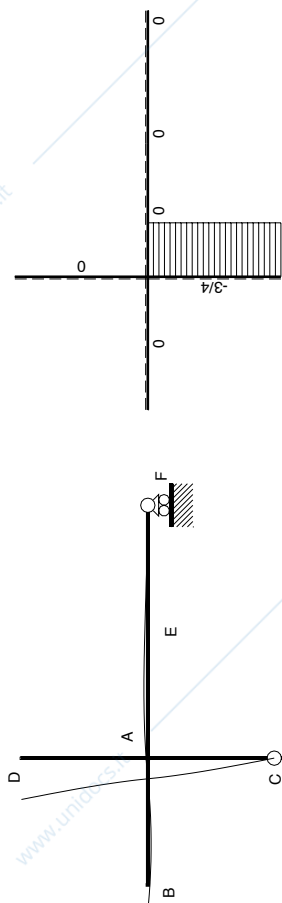
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

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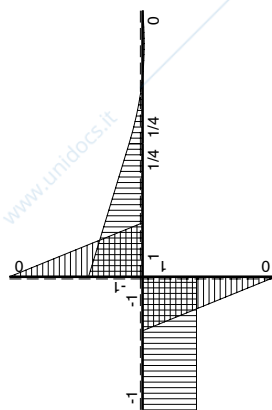
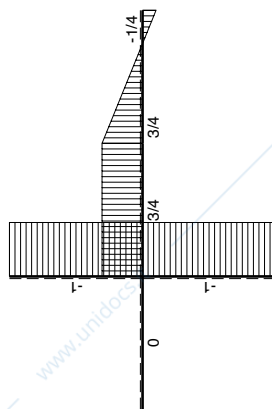
23.10.23

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$$\leftarrow \boxed{+} \rightarrow F$$

$$I - 13 Fb^3/EJ$$



$$\leftarrow \boxed{+} \rightarrow F_b$$

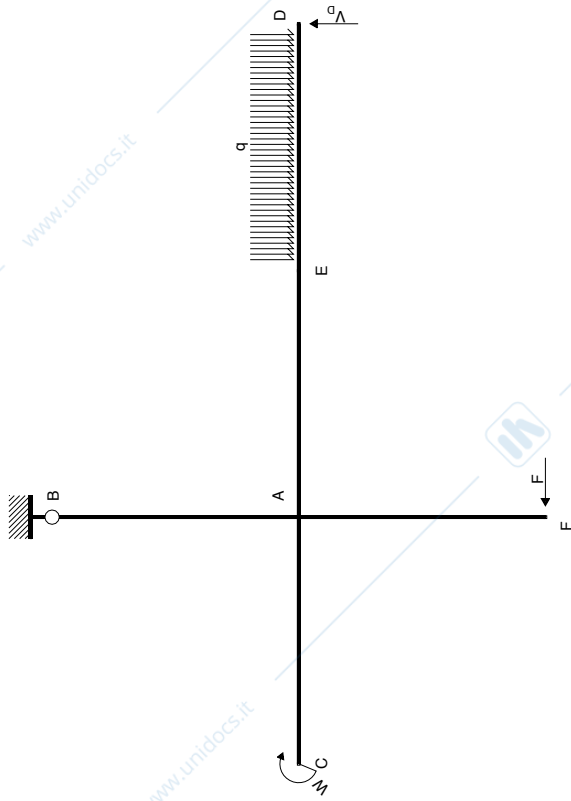
$$I \downarrow F$$

EQUILIBRIO Nome:

SMMS.004

REAZIONI Nome:

SMMS.004



EQUAZIONI DI EQUILIBRIO

Rotazione globale intorno a B

$$2V_{pb} = 2Fb + W + 3/2qb^2$$

Matrice di equilibrio

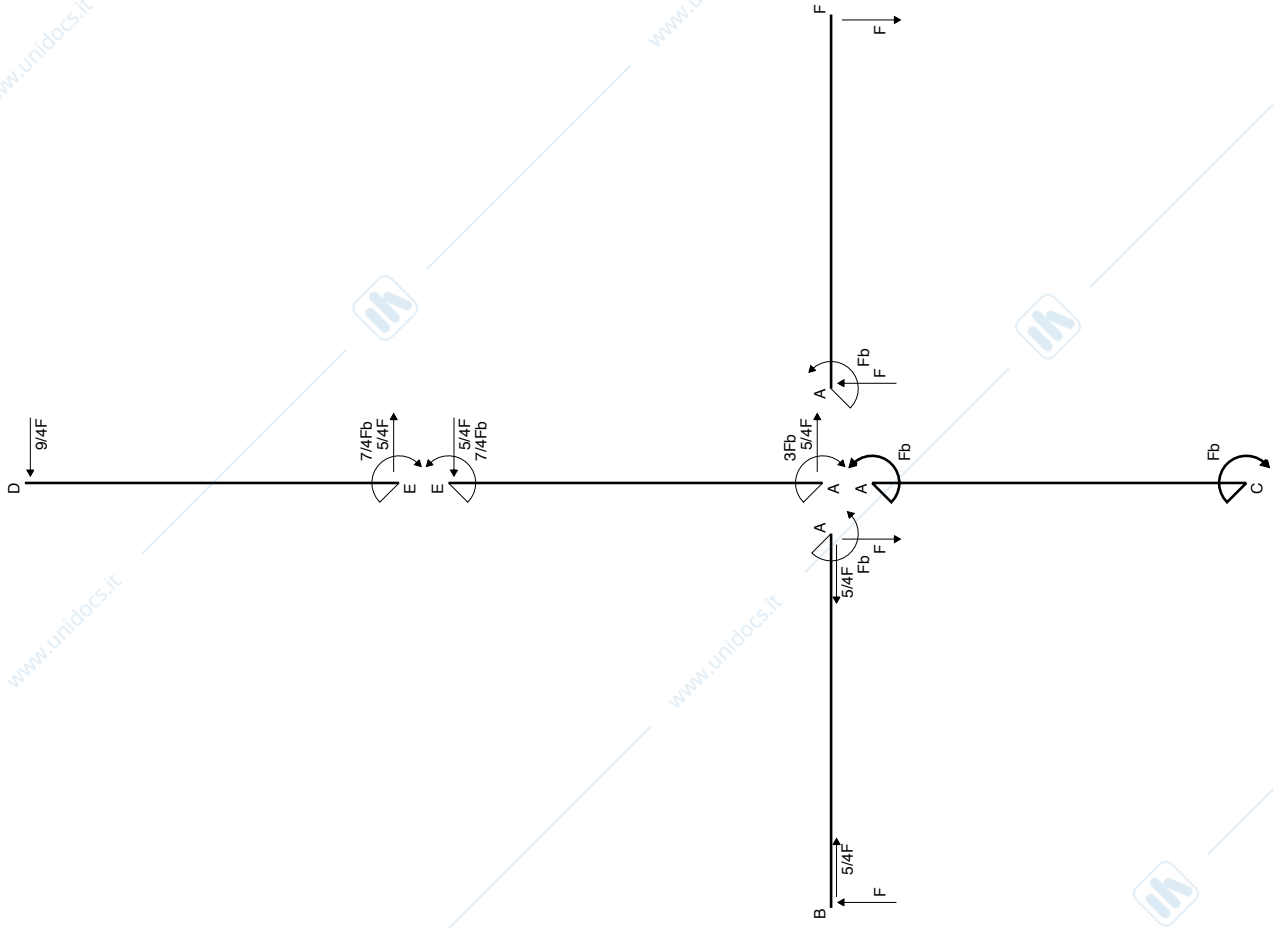
$$[V_{pb}] \begin{bmatrix} Fb & W & qb^2 \end{bmatrix}$$

$$\varphi_B \begin{bmatrix} 2 & 1 & 3/2 \end{bmatrix}$$

Soluzione del sistema

$$[Fb \ W \ qb^2]$$

$$[V_{pb}] = \begin{bmatrix} 1 & 1/2 & 3/4 \end{bmatrix}$$



SMMS.004

PROCEDIMENTO E RISULTATI Nome:

SMMS.004

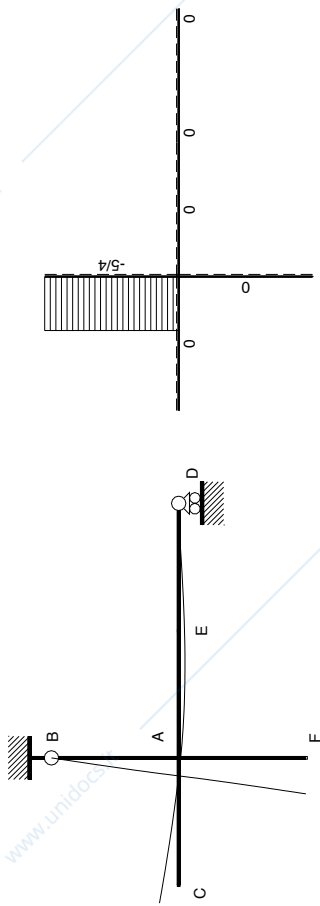
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

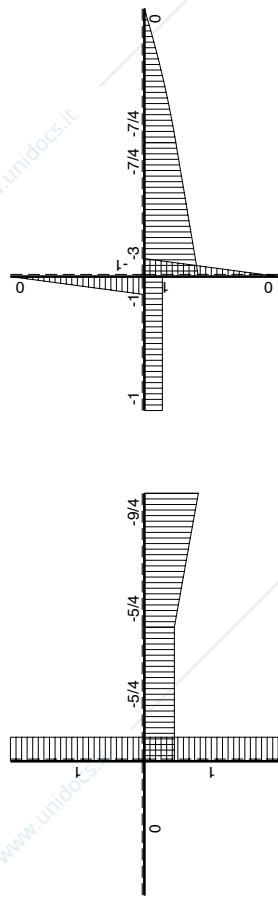
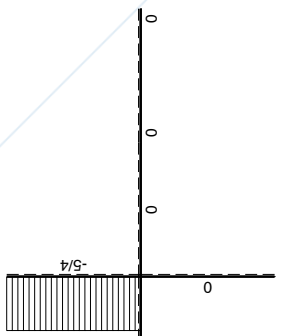
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$10 Fb^3/EJ$

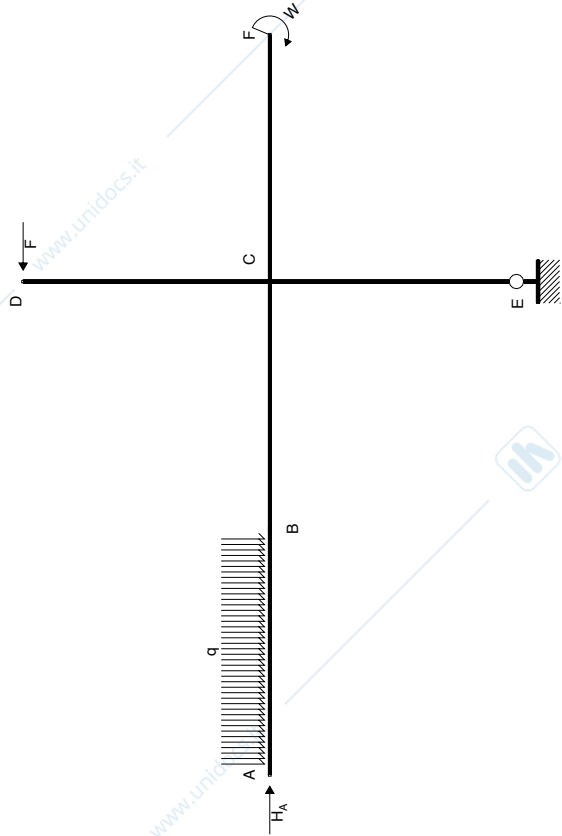
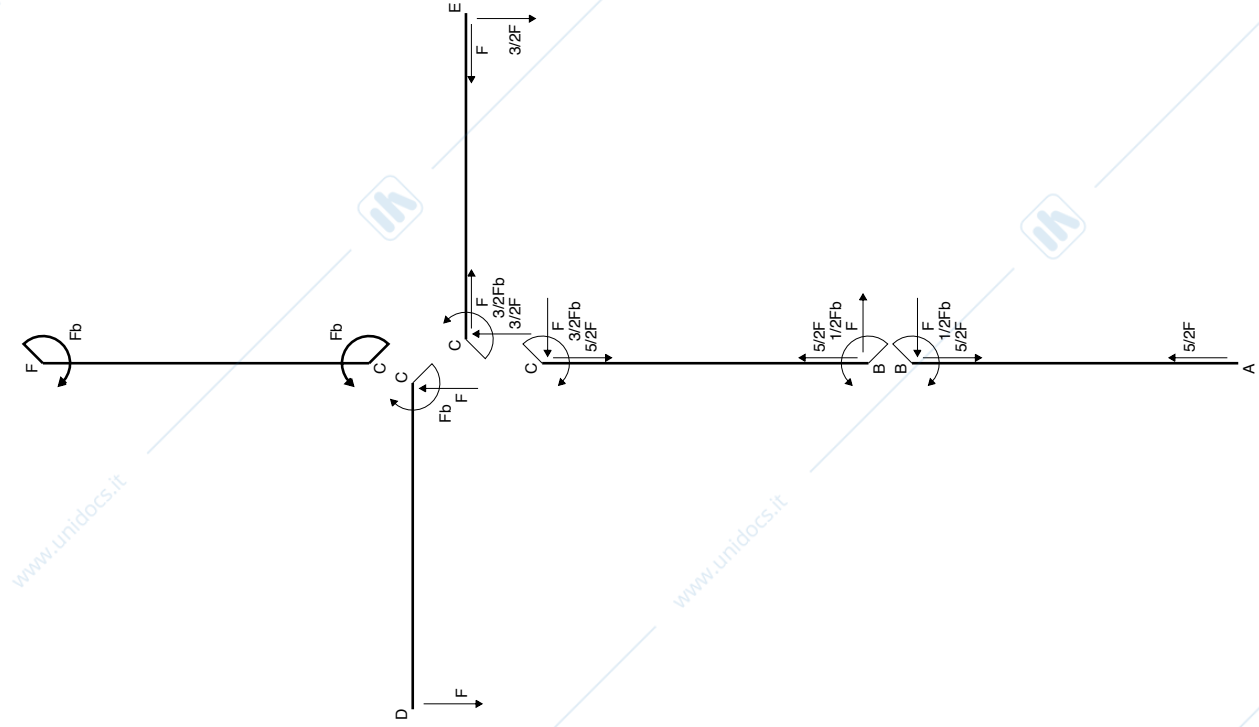


SMMS.005

REAZIONI Nome:

SMMS.005

EQUILIBRIO Nome:



EQUAZIONI DI EQUILIBRIO  
 Rotazione globale intorno a E  
 $-H_{A,b} = -2Fb + W - 3/2qb^2$

Matrice di equilibrio

$$[H_{A,b}] \begin{bmatrix} Fb & W & qb^2 \\ -1 & 1 & -3/2 \end{bmatrix}$$

Soluzione del sistema

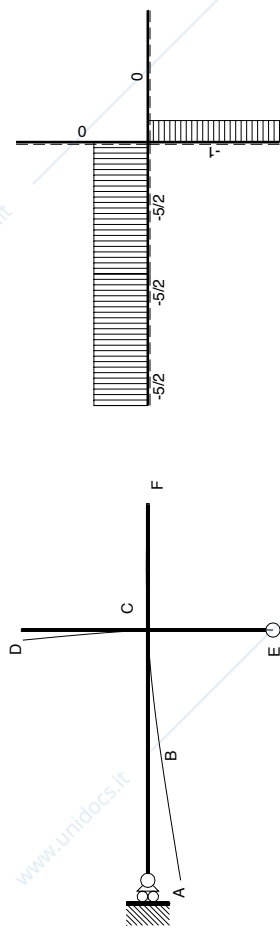
$$\begin{bmatrix} Fb & W & qb^2 \\ H_{A,b} \end{bmatrix} = \begin{bmatrix} 2 & -1 & 3/2 \end{bmatrix}$$

SMMS.005

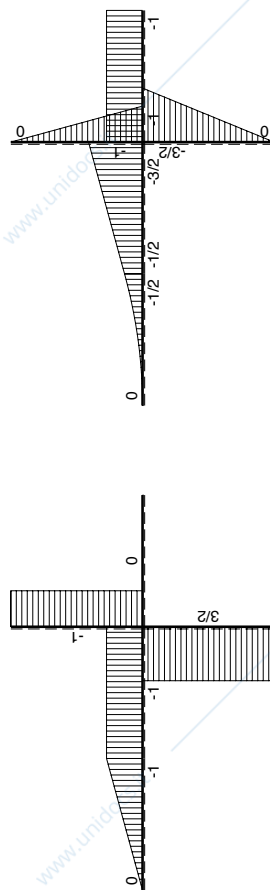
PROCEDIMENTO E RISULTATI Nome:

SMMS.005

DEFORMATA E AZIONI INTERNE Nome:



$16 Fb^3/EJ$



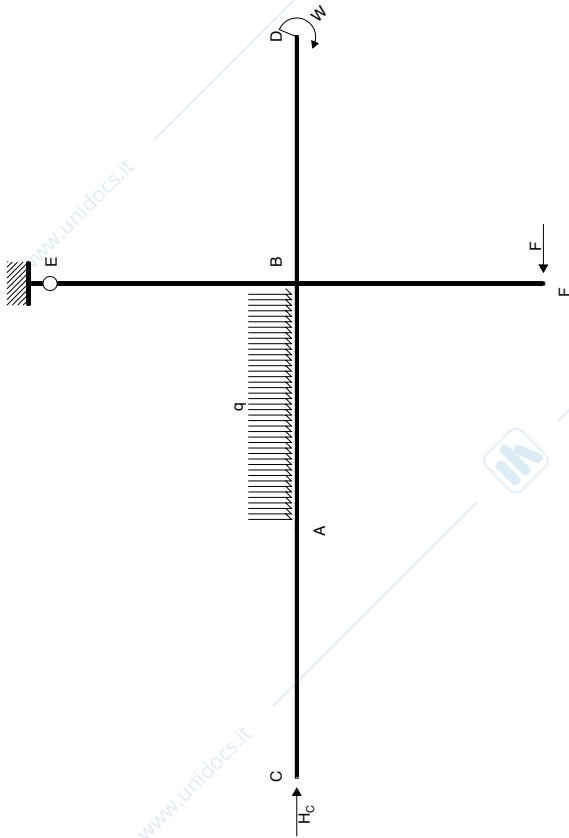
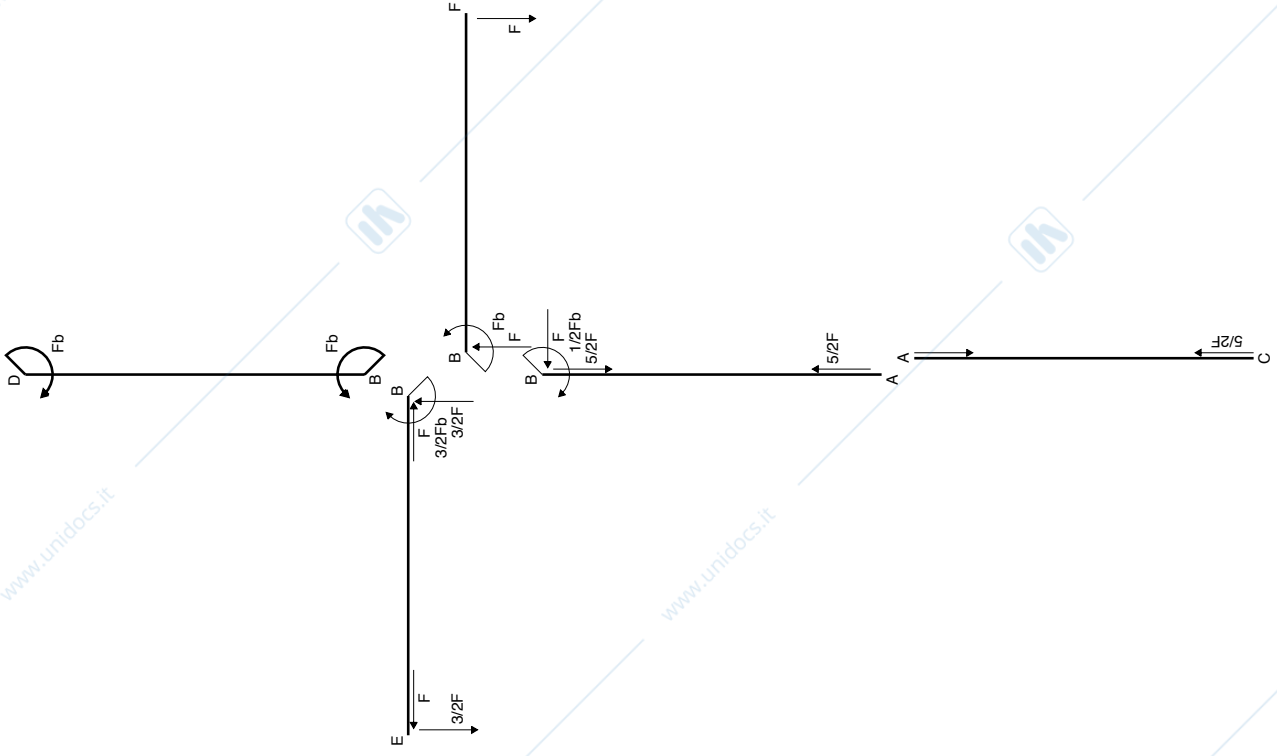
$16 Fb^3/EJ$

SMMS.006

REAZIONI Nome:

SMMS.006

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a E  
 $H_c b = 2Fb + W - 1/2qb^2$

Matrice di equilibrio  
 $[H_c b] \begin{bmatrix} Fb & W & qb^2 \end{bmatrix}$   
 $\varphi_E \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 2 & 1 & -1/2 \end{bmatrix}$

Soluzione del sistema  
 $\begin{bmatrix} Fb & W & qb^2 \end{bmatrix}$   
 $[H_c b] = \begin{bmatrix} 2 & 1 & -1/2 \end{bmatrix}$

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SMMS.006

PROCEDIMENTO E RISULTATI Nome:

SMMS.006

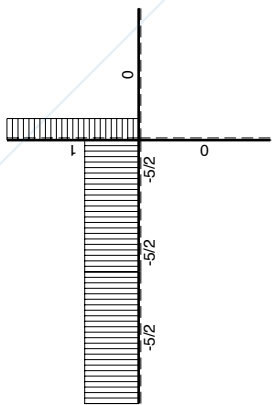
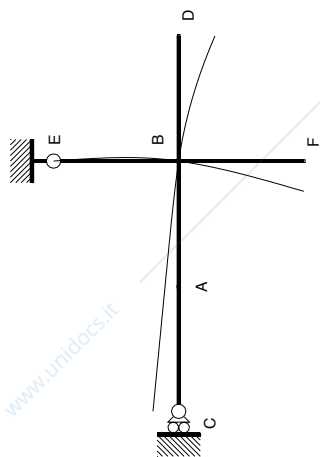
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

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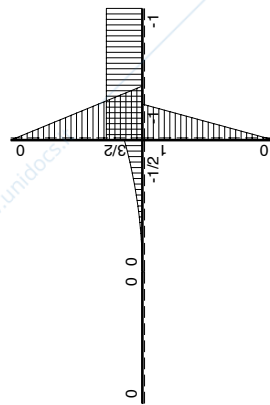
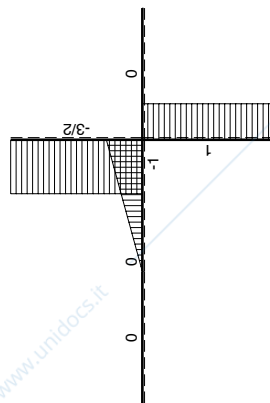
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$\leftarrow \oplus \rightarrow F$

$\leftarrow \oplus \rightarrow F$



$\leftarrow \oplus \rightarrow F_b$

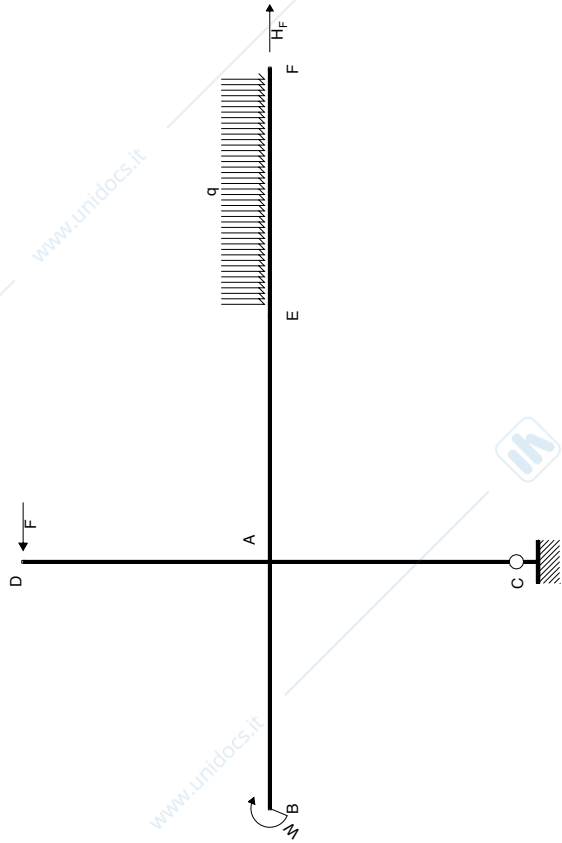
$\leftarrow \oplus \rightarrow F_b$

SMMS.007

REAZIONI Nome:

SMMS.007

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a C

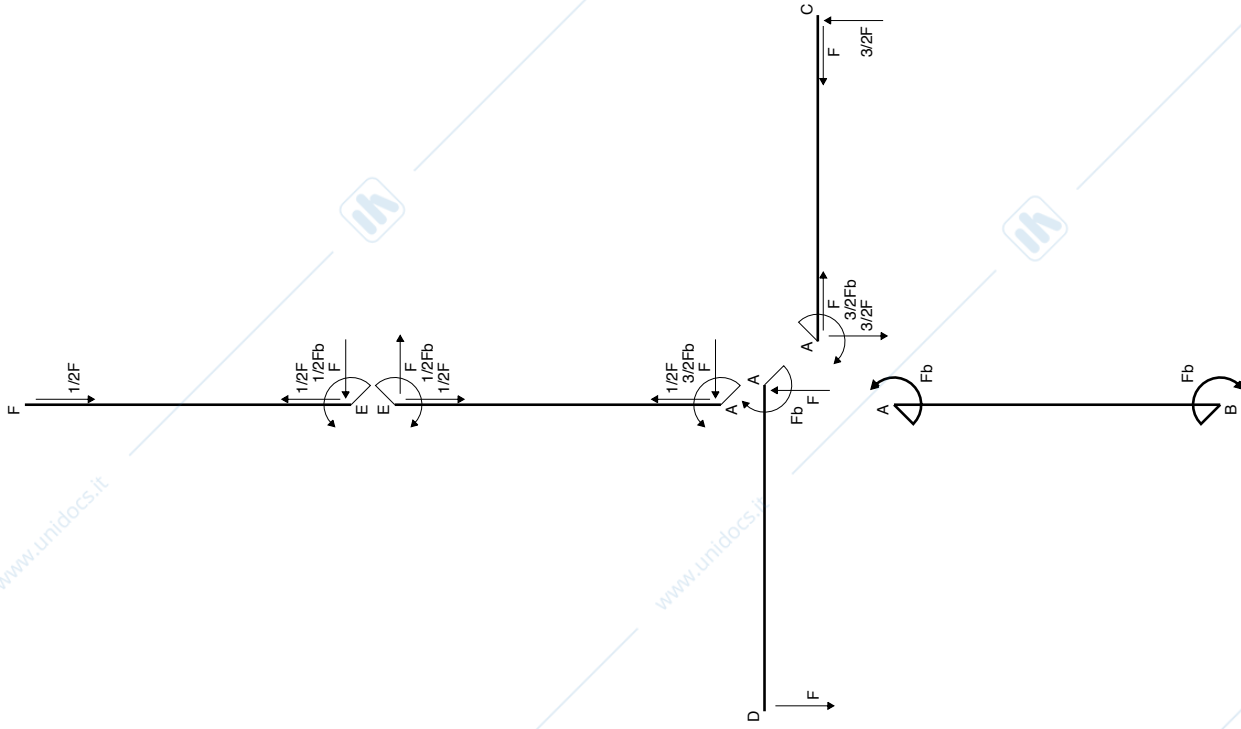
$$-H_{Fb} = -2Fb + W + 3/2qb^2$$

Matrice di equilibrio

$$[H_{Fb}] \begin{bmatrix} Fb & W & qb^2 \\ -2 & 1 & 3/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} Fb & W & qb^2 \\ H_{Fb} \end{bmatrix} = \begin{bmatrix} 2 & -1 & -3/2 \end{bmatrix}$$



SMMS.007

PROCEDIMENTO E RISULTATI Nome:

SMMS.007

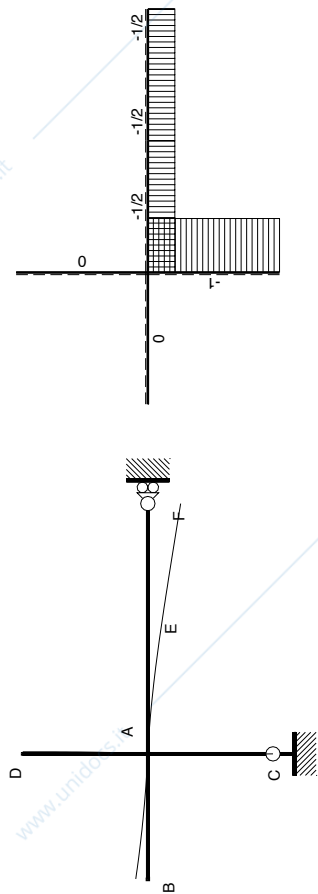
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

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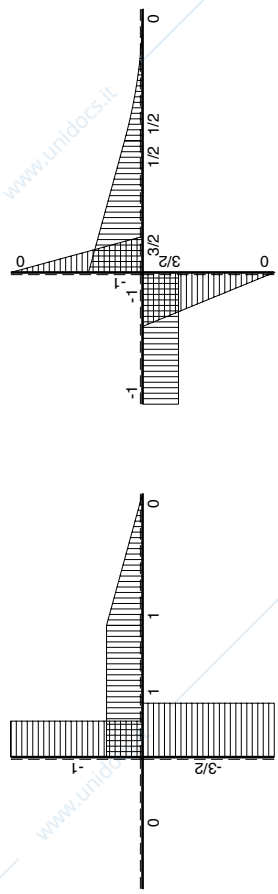
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$$I = 16 Fb^3/EJ$$

$$I = 16 Fb^3/EJ$$



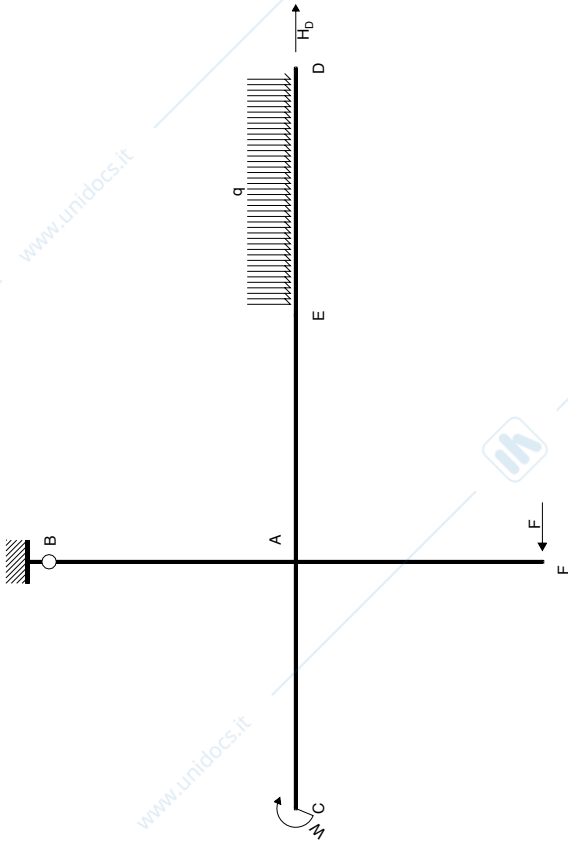
$$I = 16 Fb^3/EJ$$

SMMS.008

REAZIONI Nome:

SMMS.008

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a B

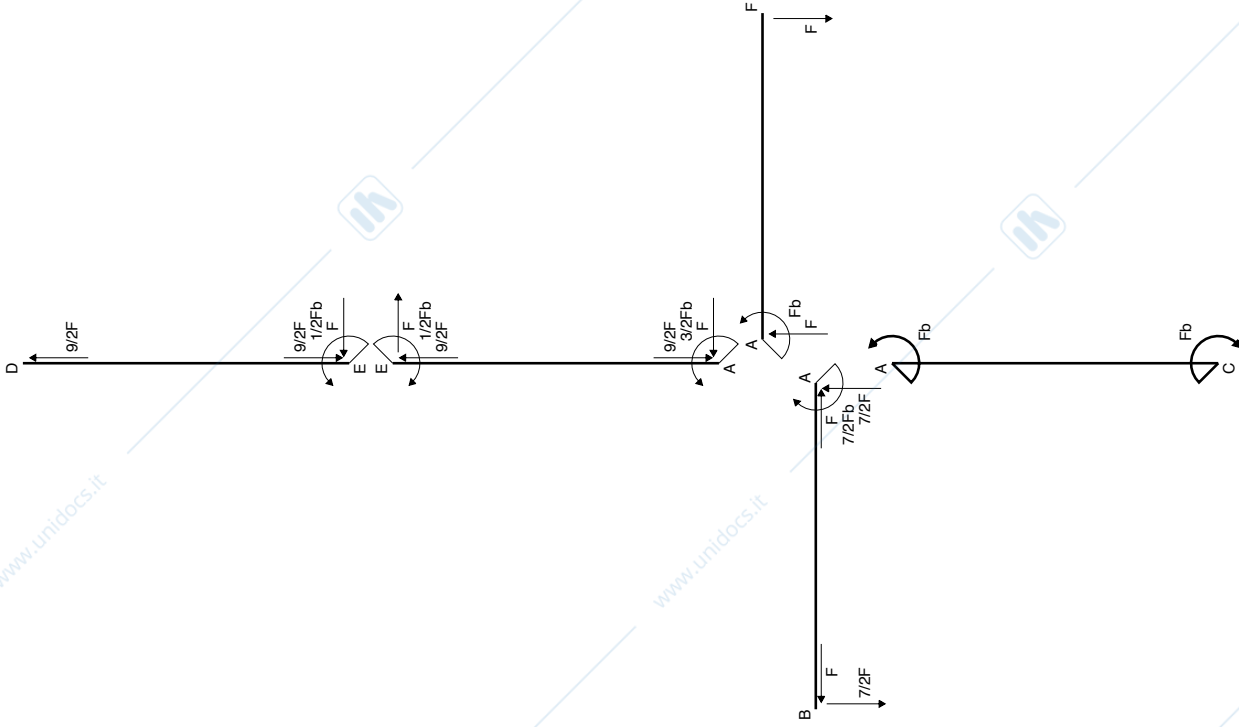
$$H_{0b} = 2Fb + W + 3/2qb^2$$

Matrice di equilibrio

$$[H_{0b}] \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 2 & 1 \\ 3/2 & 1 \end{bmatrix} \begin{bmatrix} F \\ W \end{bmatrix}$$

Soluzione del sistema

$$[H_{0b}] = \begin{bmatrix} 2 & 1 \\ 3/2 & 1 \end{bmatrix} \begin{bmatrix} F \\ W \end{bmatrix}$$

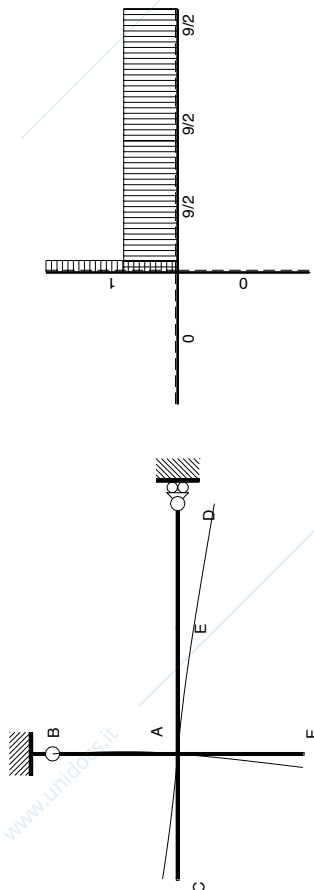


SMMS.008

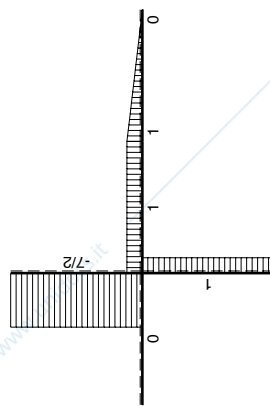
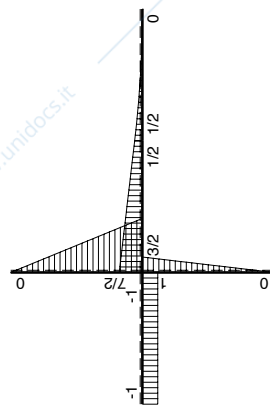
PROCEDIMENTO E RISULTATI Nome:

SMMS.008

DEFORMATA E AZIONI INTERNE Nome:



18 Fb<sup>3</sup>/EJ



Fb

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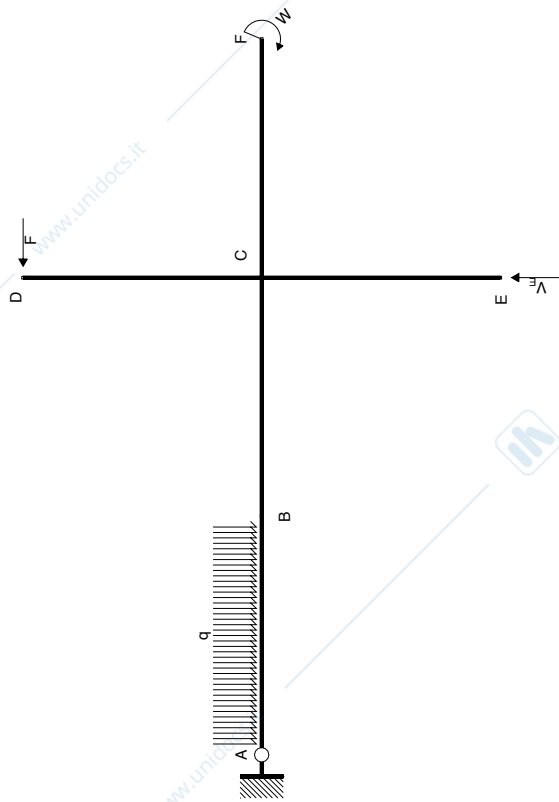
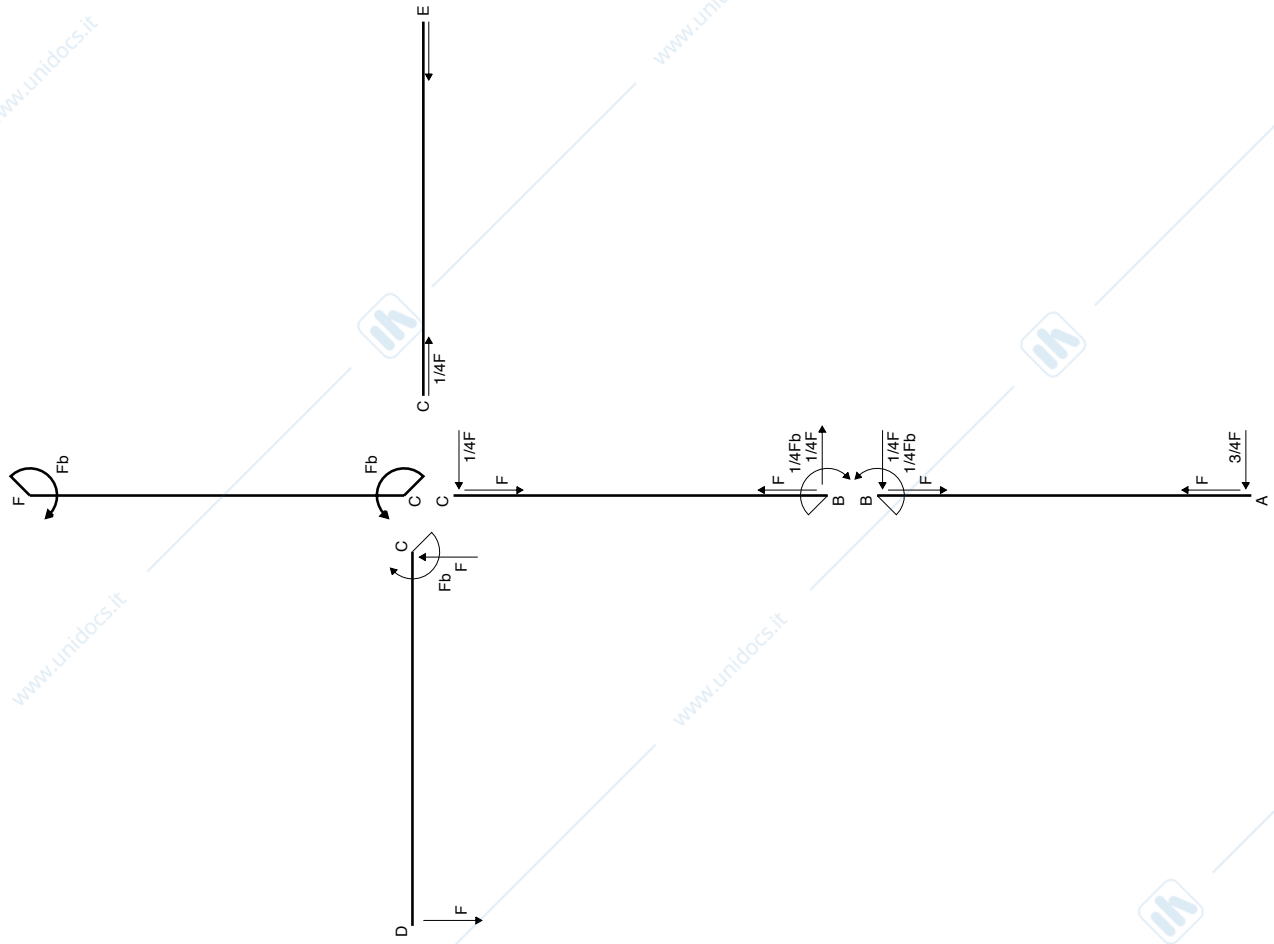
23.10.23

SMMS.009

REAZIONI Nome:

SMMS.009

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a A  
 $2V_{E^b} = -F_b + W + 1/2qb^2$

Matrice di equilibrio

$$[V_{E^b}] \begin{bmatrix} F_b & W & qb^2 \\ -1 & 1 & 1/2 \end{bmatrix} = [-2]$$

Soluzione del sistema

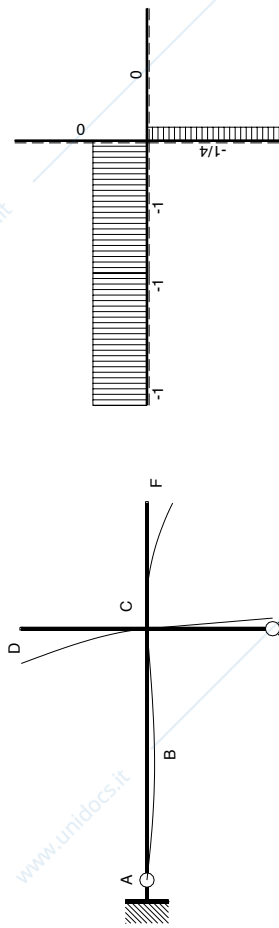
$$[V_{E^b}] = \begin{bmatrix} -1/2 & 1/2 & 1/4 \end{bmatrix}$$

SMMS.009

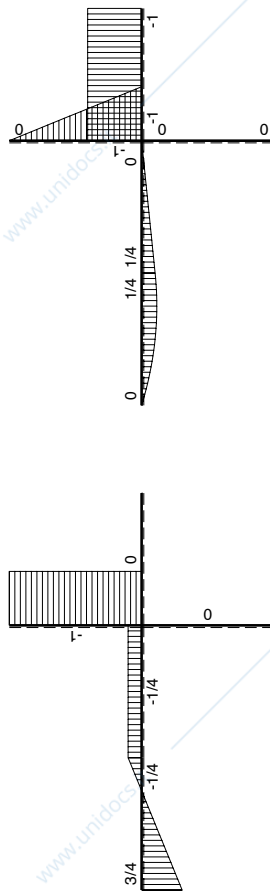
PROCEDIMENTO E RISULTATI Nome:

SMMS.009

DEFORMATA E AZIONI INTERNE Nome:



$1 \rightarrow 1 Fb^3/EJ$



$1 \rightarrow 1 Fb$



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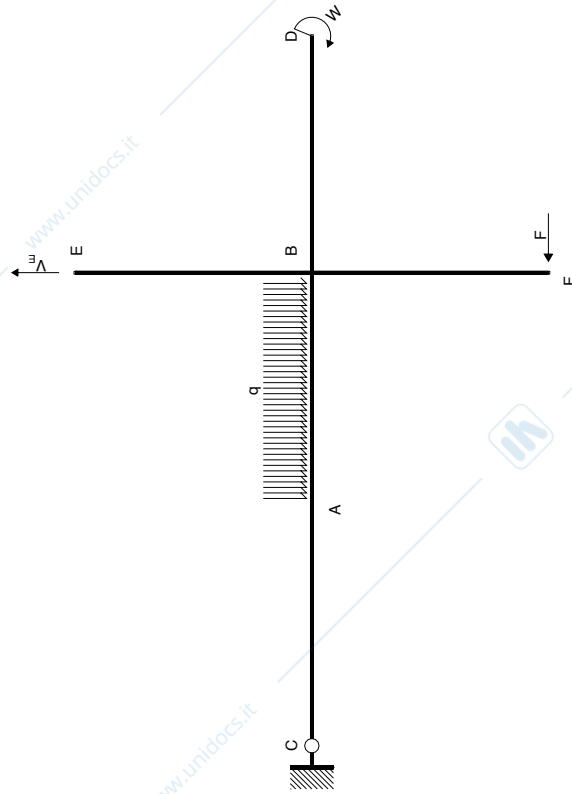
23.10.23

SMMS.010

REAZIONI Nome:

SMMS.010

EQUILIBRIO Nome:



EQUAZIONI DI EQUILIBRIO

Rotazione globale intorno a C

$$2V_{E,b} = Fb + W + 3/2qb^2$$

Matrice di equilibrio

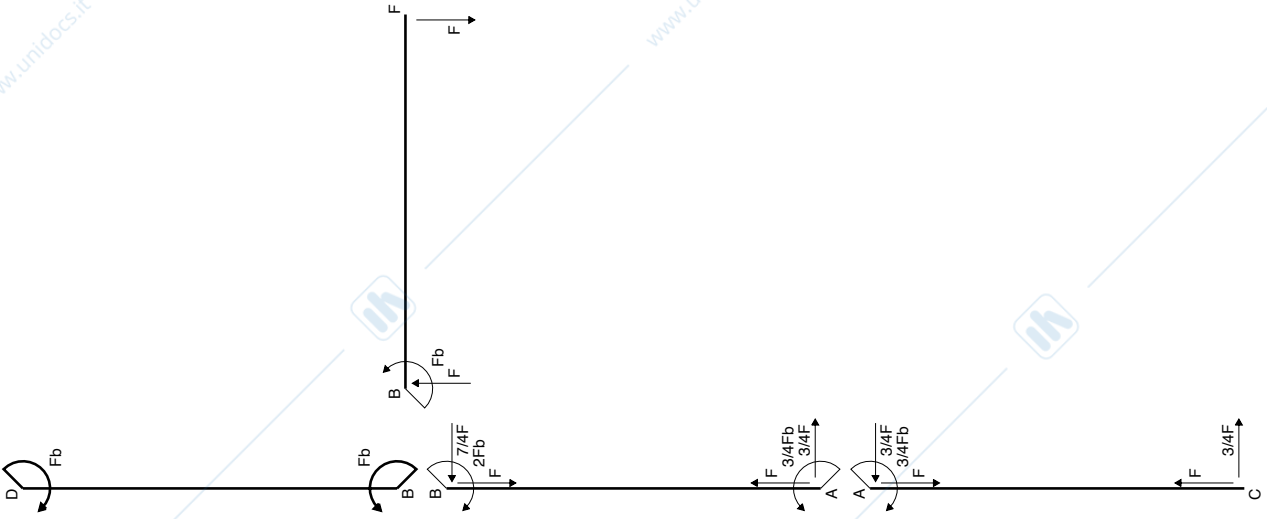
$$[V_{E,b}] = [Fb \quad W \quad qb^2]$$

$$\varphi_c [2] = [1 \quad 1 \quad 3/2]$$

Soluzione del sistema

$$[Fb \quad W \quad qb^2]$$

$$[V_{E,b}] = [1/2 \quad 1/2 \quad 3/4]$$

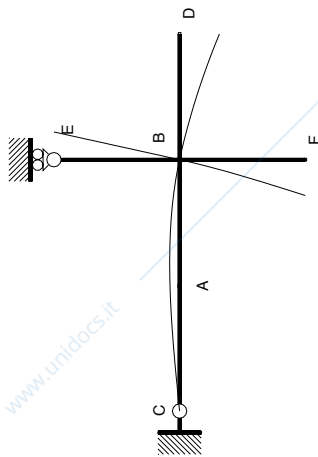


DEFORMATA E AZIONI INTERNE Nome:

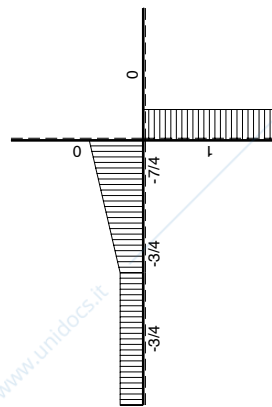
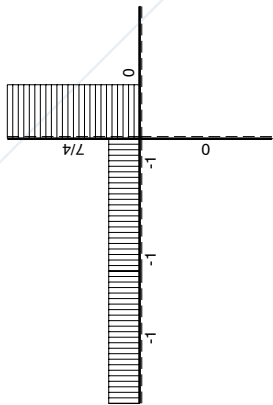
SMMS.010

PROCEDIMENTO E RISULTATI Nome:

SMMS.010



$1 \rightarrow 13 Fb^3/EJ$



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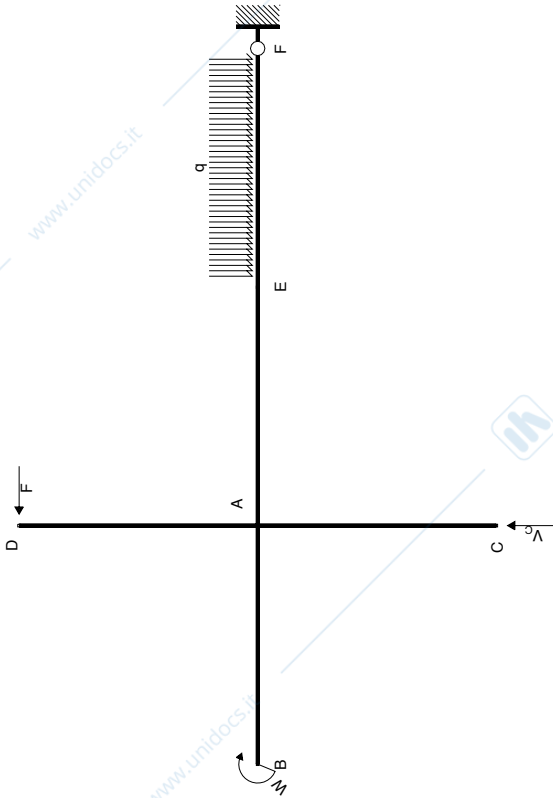
23.10.23

SMMS.011

REAZIONI Nome:

SMMS.011

EQUILIBRIO Nome:



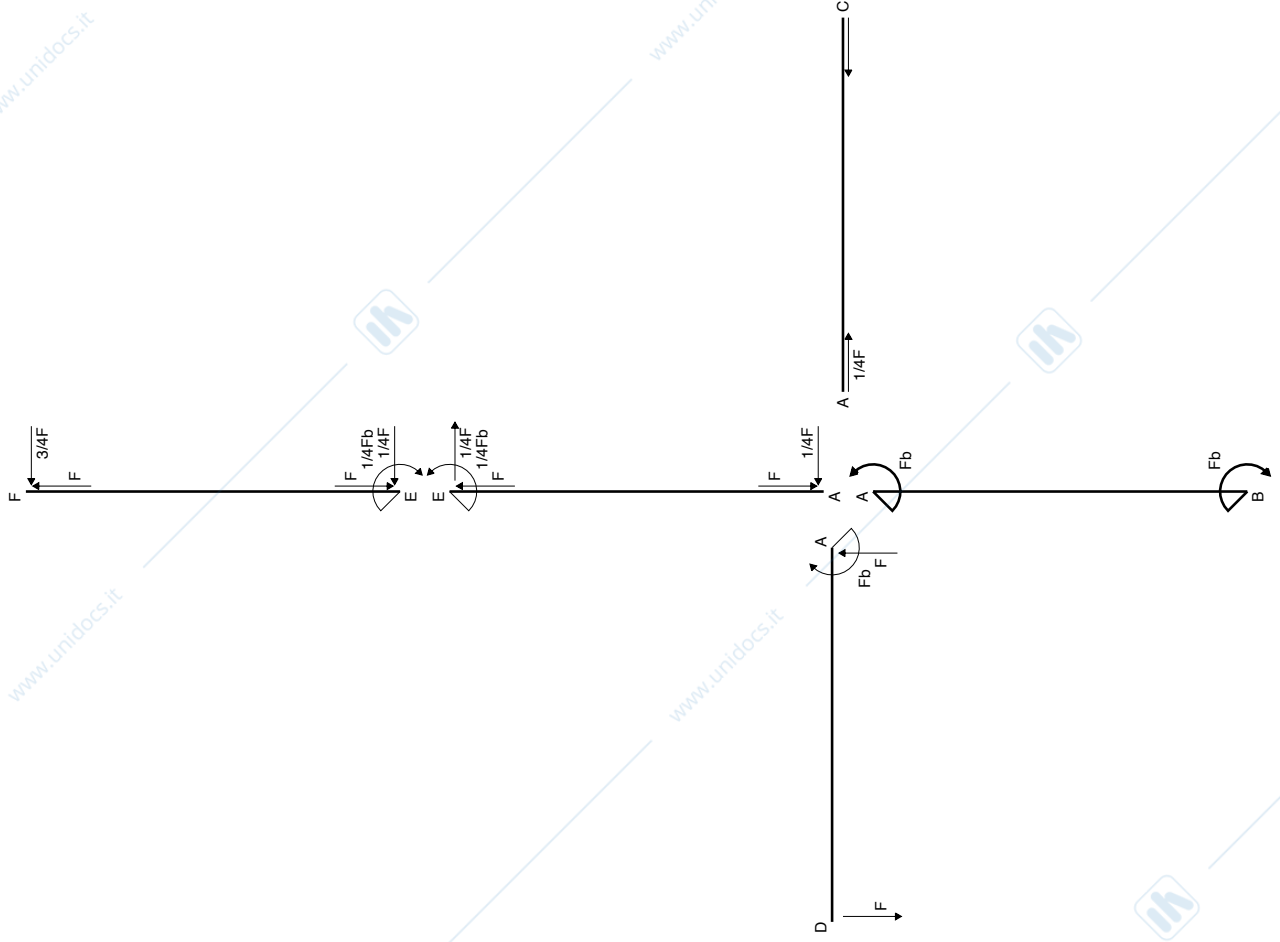
**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a F  
 $-2V_{c,b} = -Fb + W - 1/2qb^2$

Matrice di equilibrio

$$\begin{bmatrix} V_{c,b} \\ -2 \end{bmatrix} = \begin{bmatrix} Fb & W & qb^2 \\ -1 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} Fb & W & qb^2 \\ 1/2 & -1/2 & 1/4 \end{bmatrix}$$



SMMS.011

PROCEDIMENTO E RISULTATI Nome:

SMMS.011

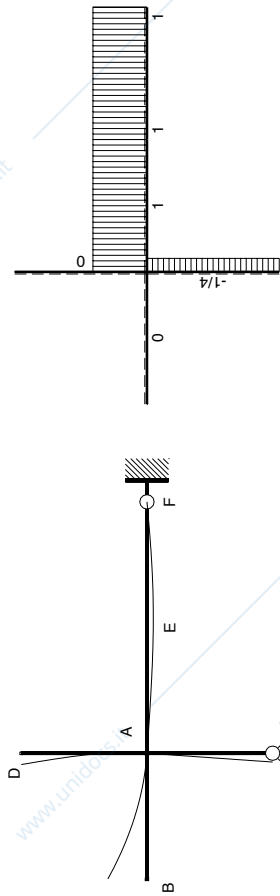
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

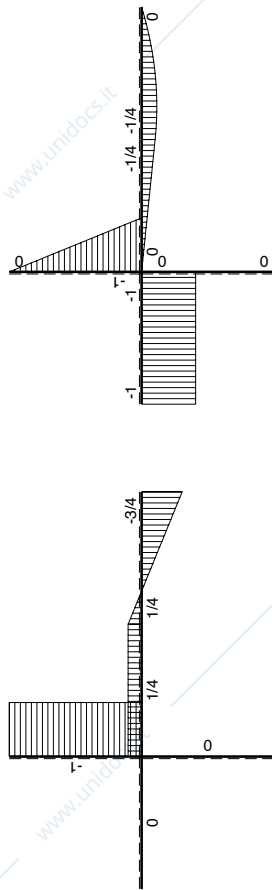
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$I = 1.2 Fb^3/EJ$



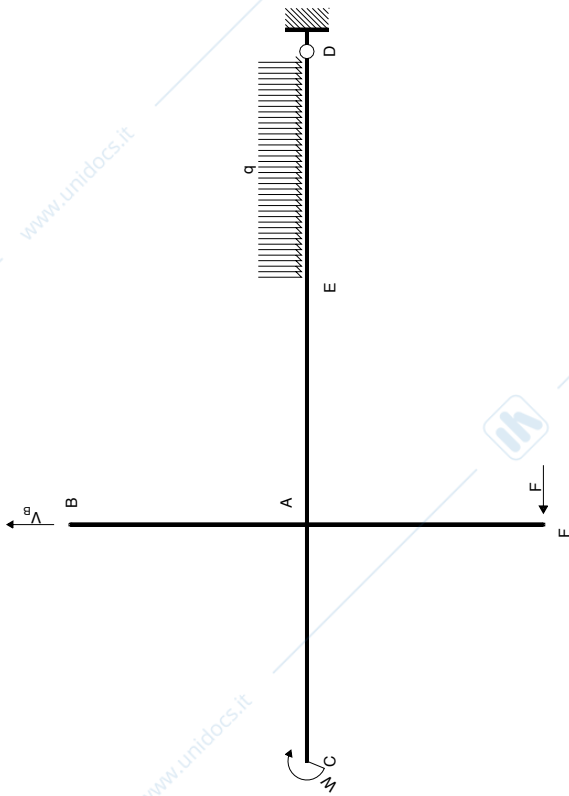
$\int \dots Fb$

EQUILIBRIO Nome:

SMMS.012

REAZIONI Nome:

SMMS.012



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a D

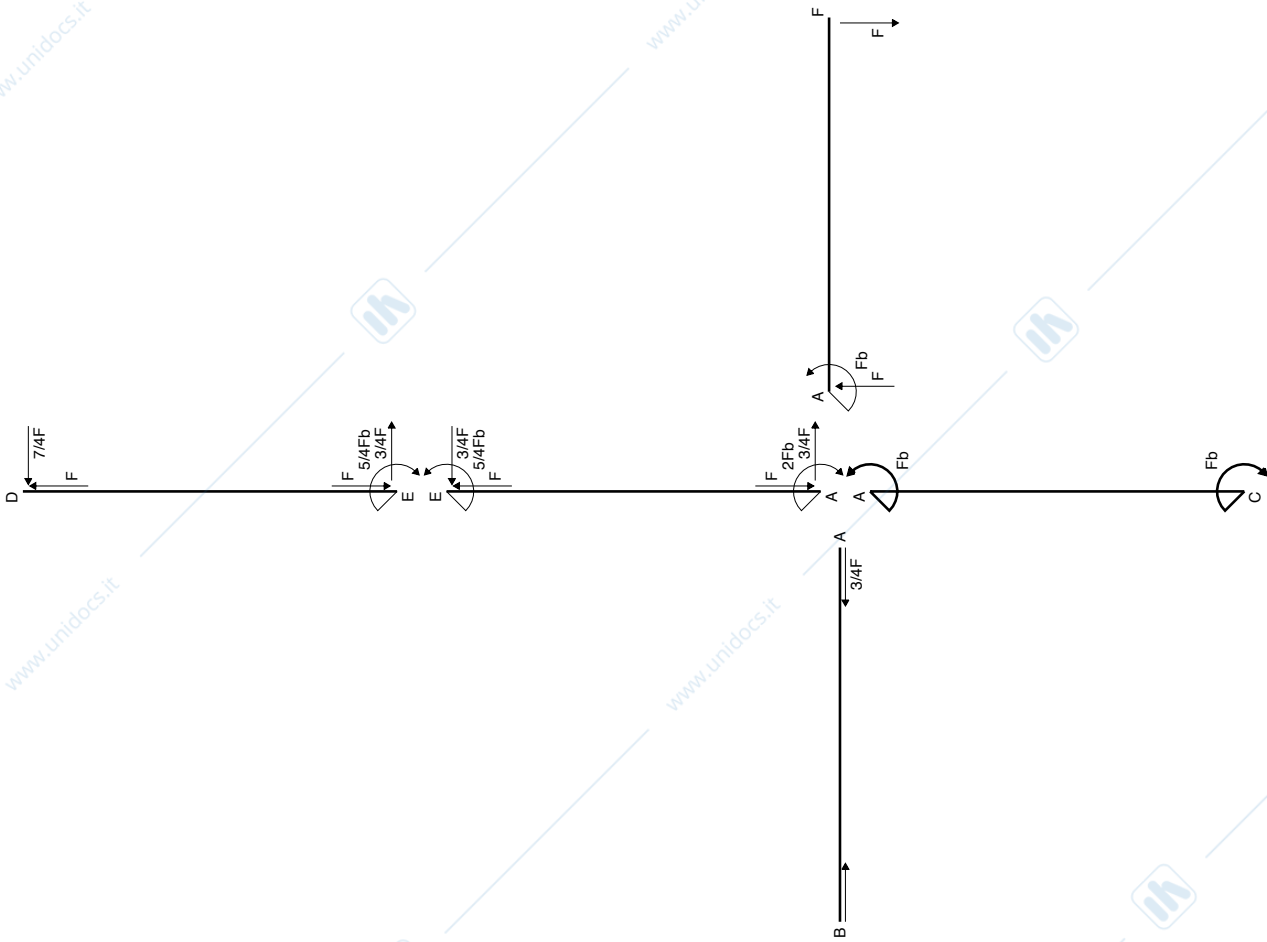
$$-2V_{b,b} = F_b + W - 1/2qb^2$$

Matrice di equilibrio

$$\begin{bmatrix} V_{b,b} \\ -2 \end{bmatrix} = \begin{bmatrix} F_b & W & qb^2 \\ 1 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} F_b & W & qb^2 \\ -1/2 & -1/2 & 1/4 \end{bmatrix}$$

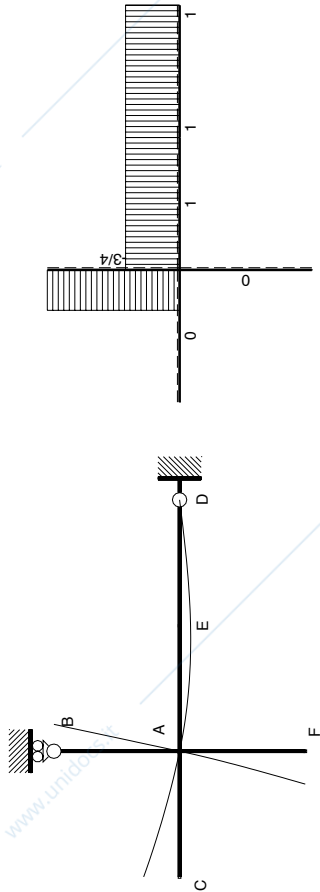


SMMS.012

PROCEDIMENTO E RISULTATI Nome:

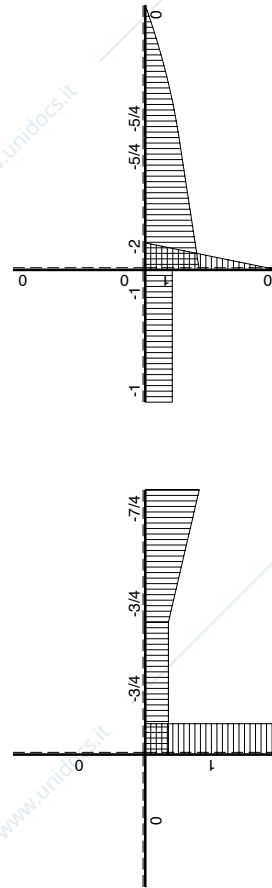
SMMS.012

DEFORMATA E AZIONI INTERNE Nome:



$$\left[ \begin{array}{c} \leftarrow \\ \oplus \\ \rightarrow \end{array} \right] F$$

$$I = 14 Fb^3/EJ$$



$$\left[ \begin{array}{c} \oplus \\ \curvearrowright \end{array} \right] Fb$$

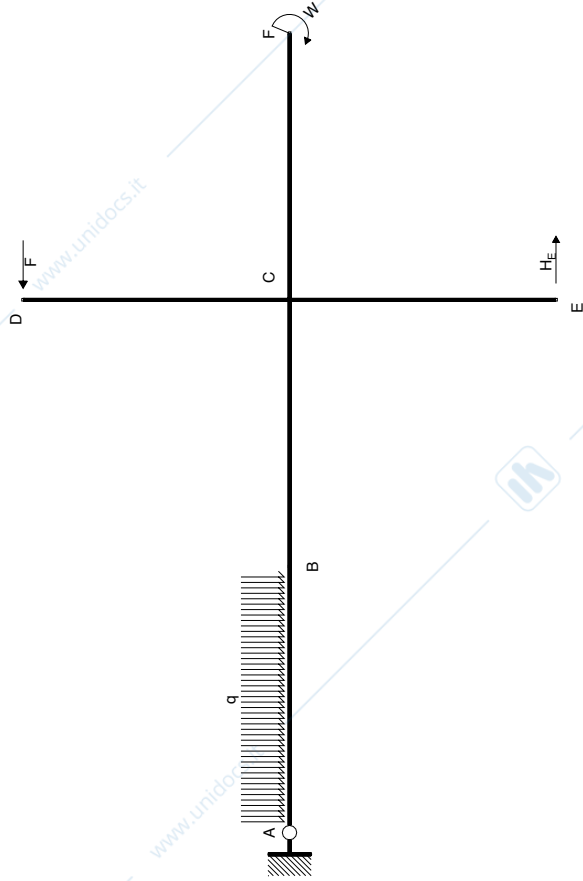
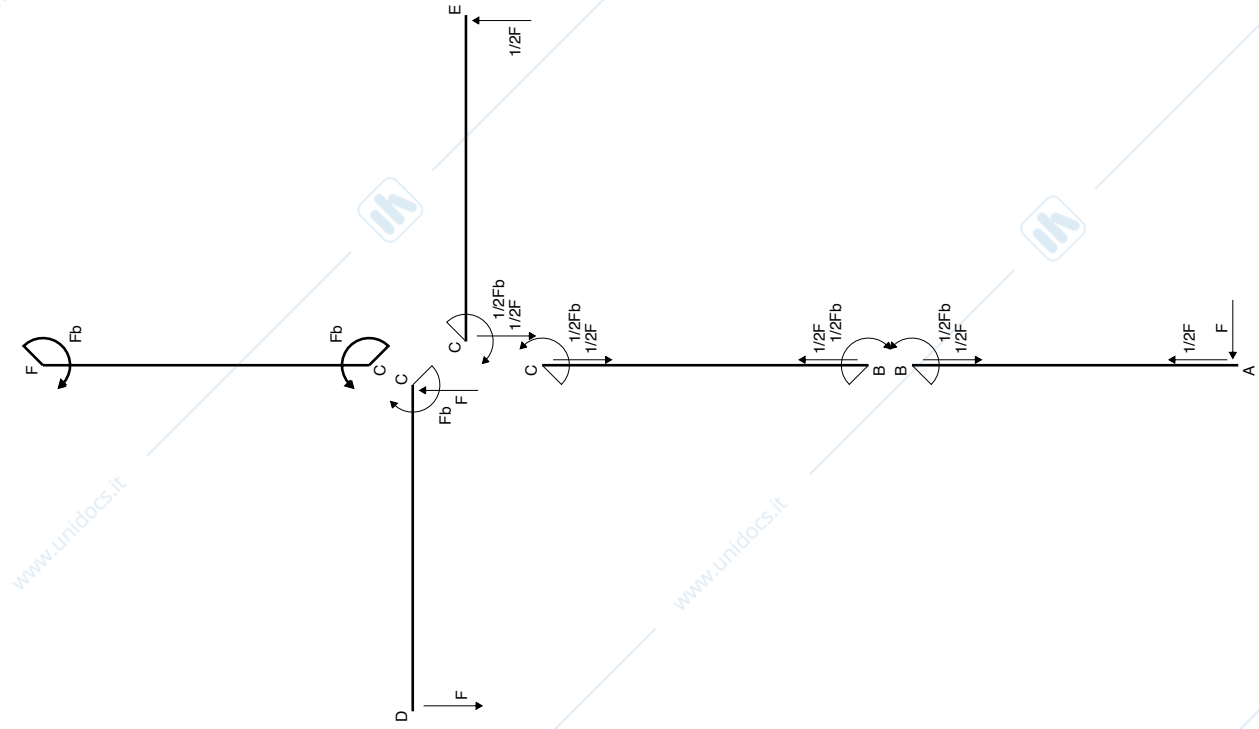
$$\left[ \begin{array}{c} \oplus \\ \downarrow \end{array} \right] F$$

SMMS.013

REAZIONI Nome:

SMMS.013

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a A  
 $H_{Eb} = -F_b + W + 1/2qb^2$

Matrice di equilibrio

$$\begin{bmatrix} H_{Eb} \\ \varphi_A \end{bmatrix} = \begin{bmatrix} -1 & 1 & 1/2 \\ -1 & 1 & 1/2 \end{bmatrix} \begin{bmatrix} F_b \\ W \\ qb^2 \end{bmatrix}$$

Soluzione del sistema

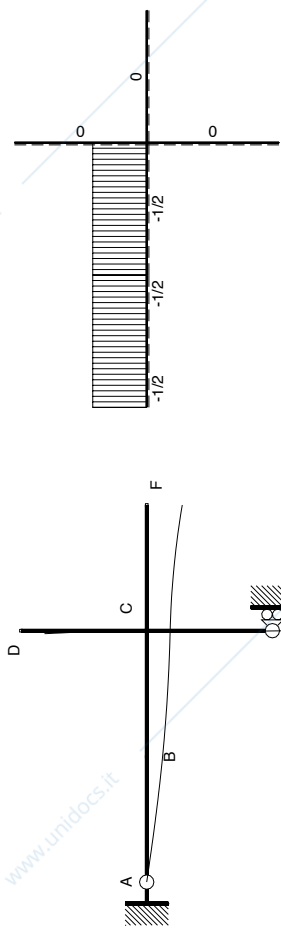
$$\begin{bmatrix} H_{Eb} \\ \varphi_A \end{bmatrix} = \begin{bmatrix} -1 & 1 & 1/2 \\ -1 & 1 & 1/2 \end{bmatrix} \begin{bmatrix} F_b \\ W \\ qb^2 \end{bmatrix}$$

SMMS.013

PROCEDIMENTO E RISULTATI Nome:

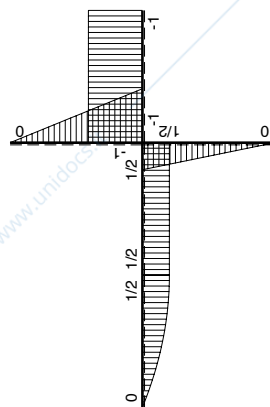
SMMS.013

DEFORMATA E AZIONI INTERNE Nome:



$\leftarrow \boxed{+} \rightarrow F$

$1 - 14 Fb^3/EJ$



$\leftarrow \boxed{+} \rightarrow Fb$

$1 \downarrow F$

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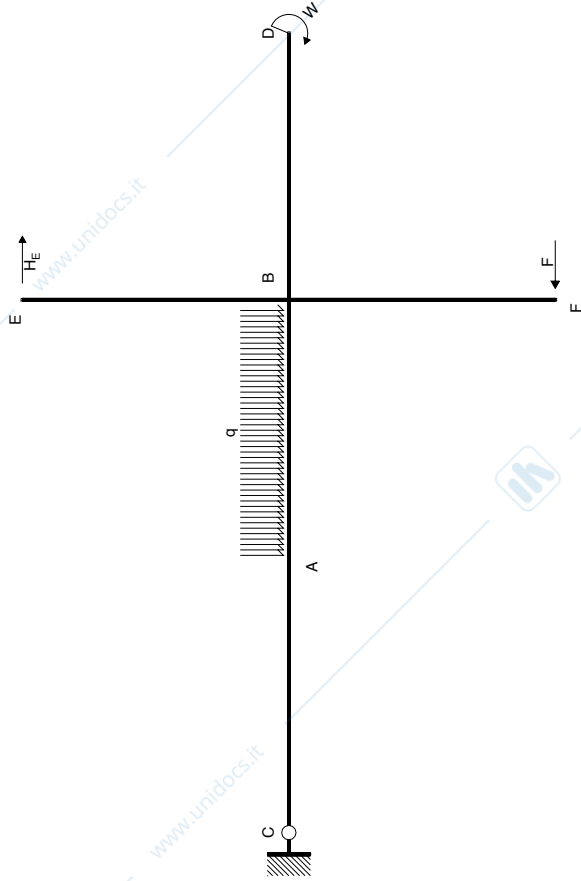
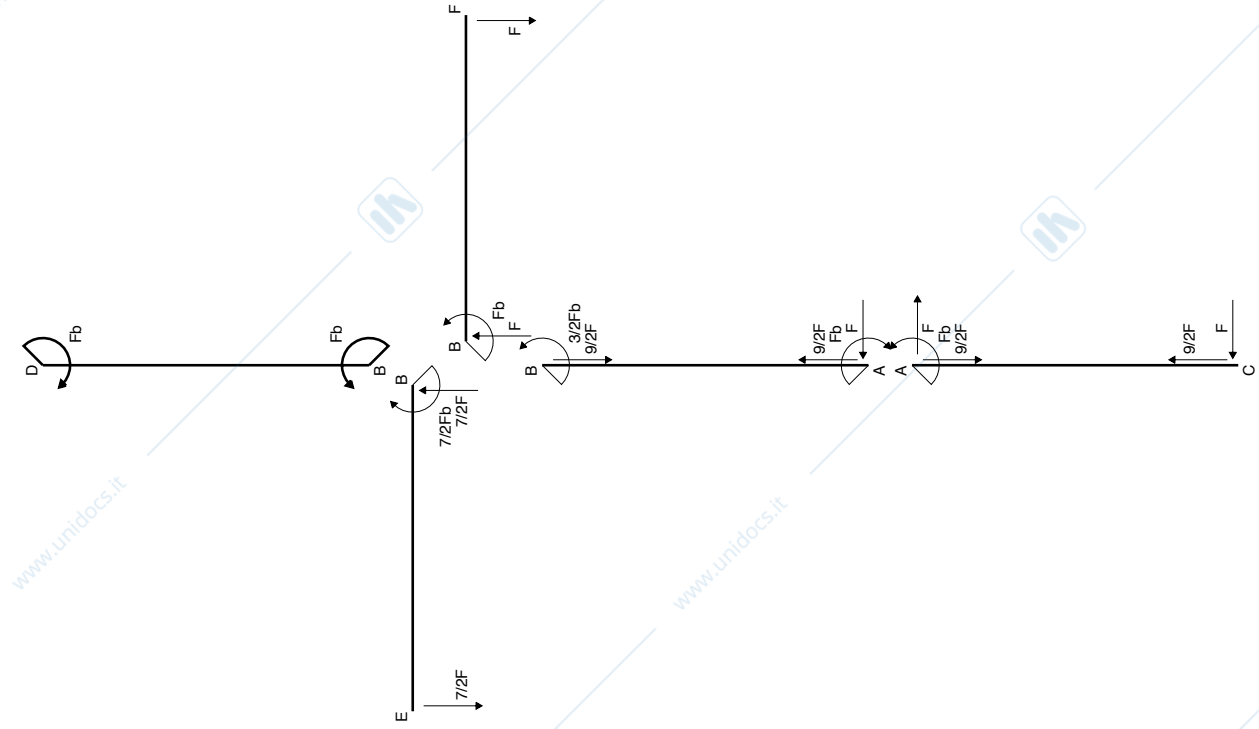
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SMMS.014

REAZIONI Nome:

SMMS.014

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a C

$$-H_E b = Fb + W + 3/2 qb^2$$

Matrice di equilibrio

$$[H_E b] \begin{bmatrix} Fb & W & qb^2 \\ -1 & 1 & 3/2 \end{bmatrix}$$

Soluzione del sistema

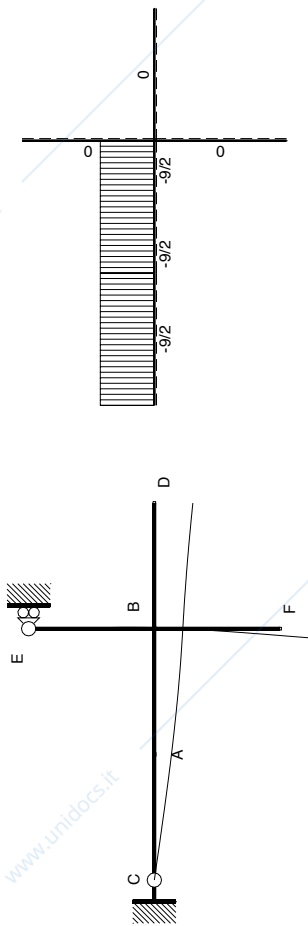
$$\begin{bmatrix} Fb & W & qb^2 \\ -1 & 1 & -3/2 \end{bmatrix}$$

SMMS.014

PROCEDIMENTO E RISULTATI Nome:

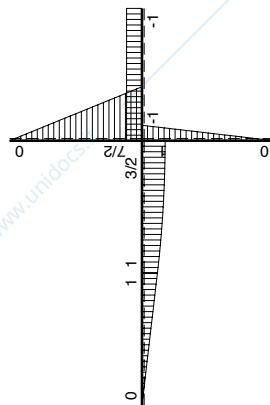
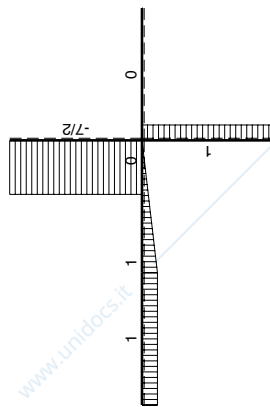
SMMS.014

DEFORMATA E AZIONI INTERNE Nome:



$1 \rightarrow 12 \text{ Fb}^3/\text{EJ}$

$\leftarrow \rightarrow F$



$\uparrow \downarrow F$

$\leftarrow \rightarrow F_b$

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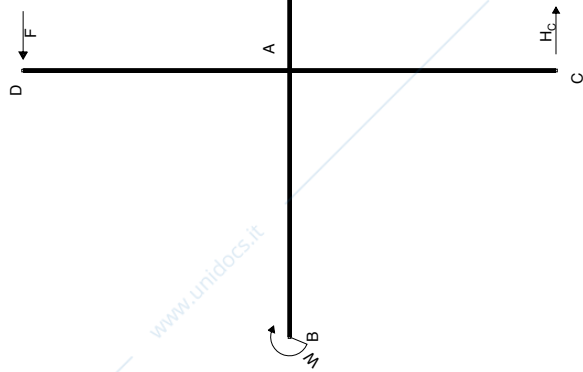
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SMMS.015

REAZIONI Nome:

SMMS.015

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a F

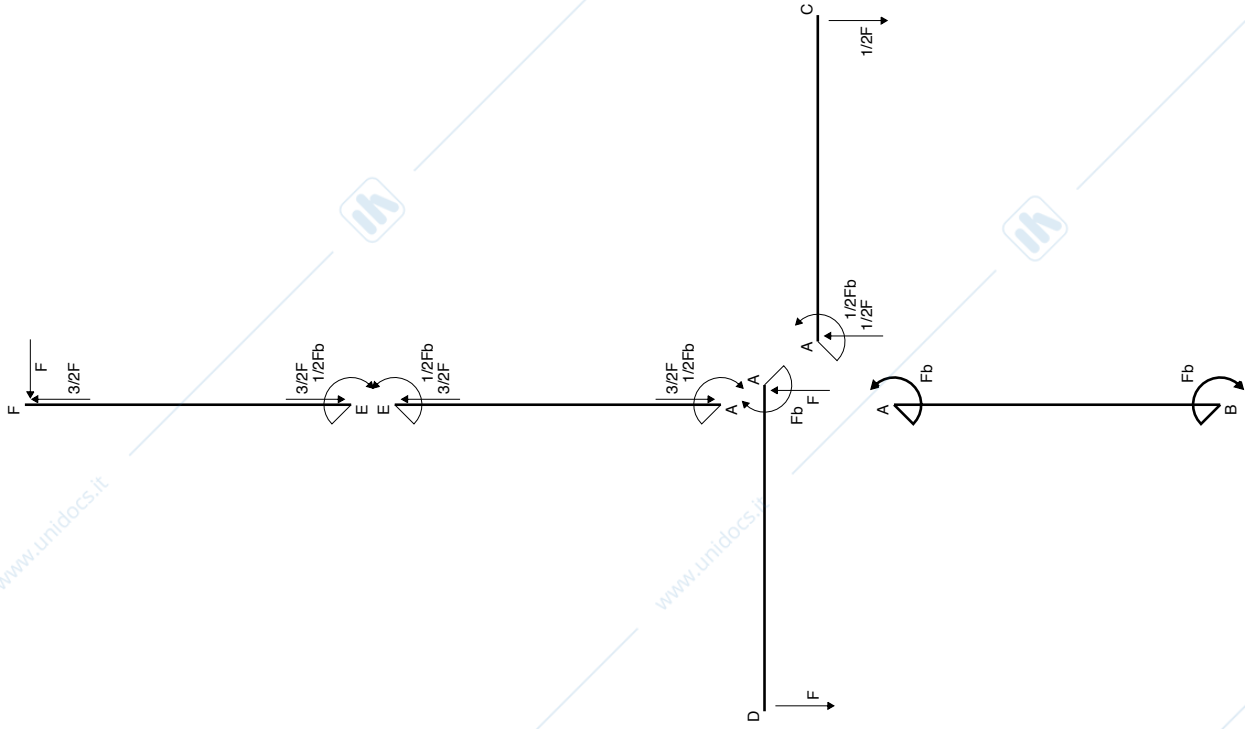
$$H_c b = -Fb + W - 1/2qb^2$$

Matrice di equilibrio

$$\begin{bmatrix} H_c b \\ 1 \end{bmatrix} = \begin{bmatrix} -Fb & W & qb^2 \\ -1 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} Fb & W & qb^2 \\ H_c b \end{bmatrix} = \begin{bmatrix} -1 & 1 & -1/2 \end{bmatrix}$$

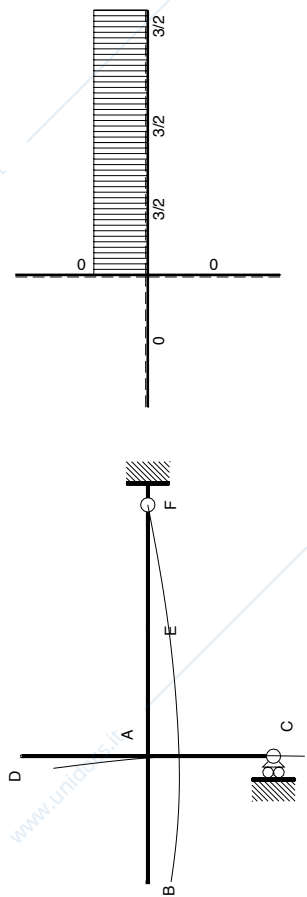


SMMS.015

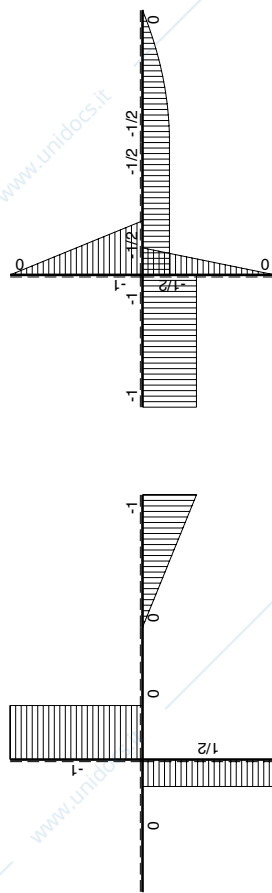
PROCEDIMENTO E RISULTATI Nome:

SMMS.015

DEFORMATA E AZIONI INTERNE Nome:



$1 \rightarrow 13 Fb^3/EJ$



$1 \rightarrow 13 Fb^3/EJ$



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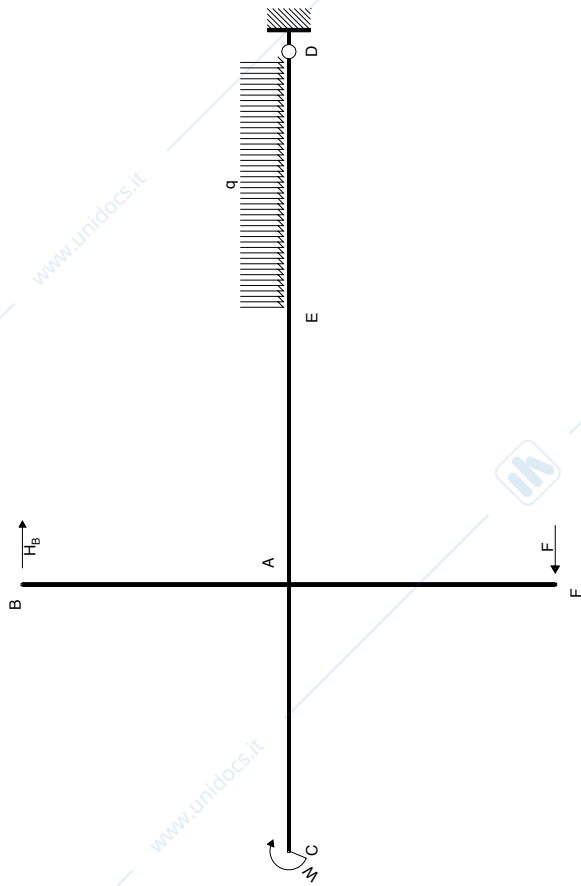
23.10.23

SMMS.016

REAZIONI Nome:

SMMS.016

EQUILIBRIO Nome:



EQUAZIONI DI EQUILIBRIO

Rotazione globale intorno a D

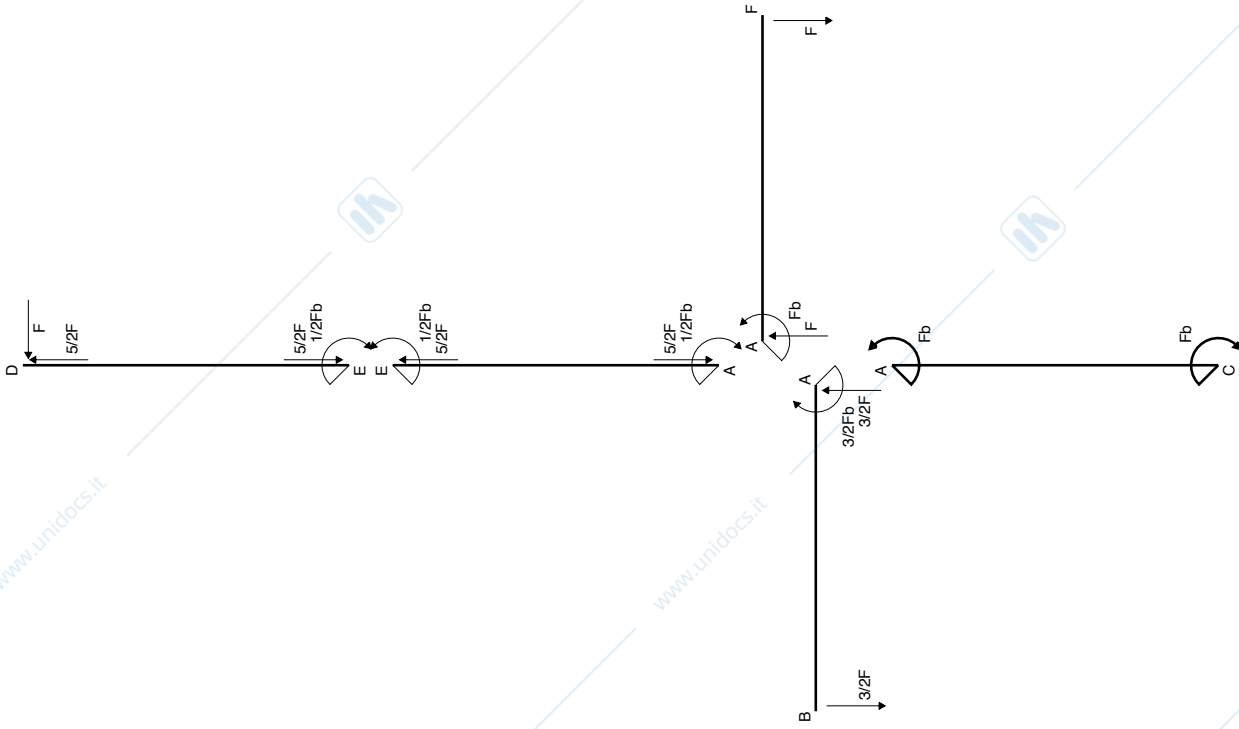
$$-H_{pb} = Fb + W - 1/2qb^2$$

Matrice di equilibrio

$$[H_{pb}] \begin{bmatrix} Fb & W & qb^2 \\ 1 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$[H_{pb}] = \begin{bmatrix} Fb & W & qb^2 \\ -1 & -1 & 1/2 \end{bmatrix}$$



SMMS.016

PROCEDIMENTO E RISULTATI Nome:

SMMS.016

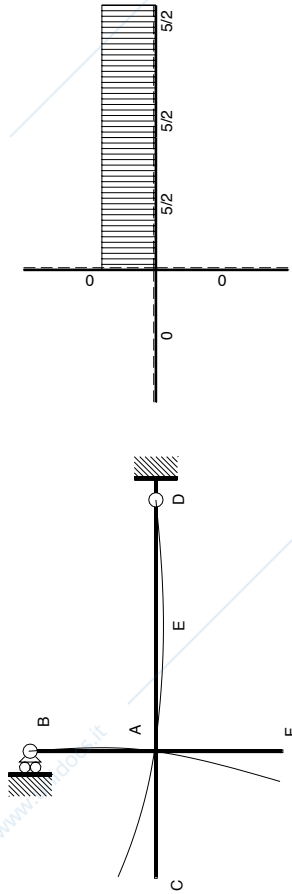
DEFORMATA E AZIONI INTERNE Nome:

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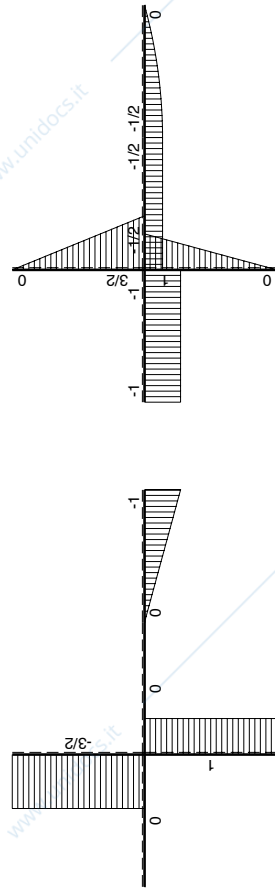
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$$\left[ \begin{array}{c} \leftarrow \\ \oplus \\ \rightarrow \end{array} \right] F$$

$$\left[ \begin{array}{c} \oplus \\ \downarrow \\ \ominus \end{array} \right] F_b$$



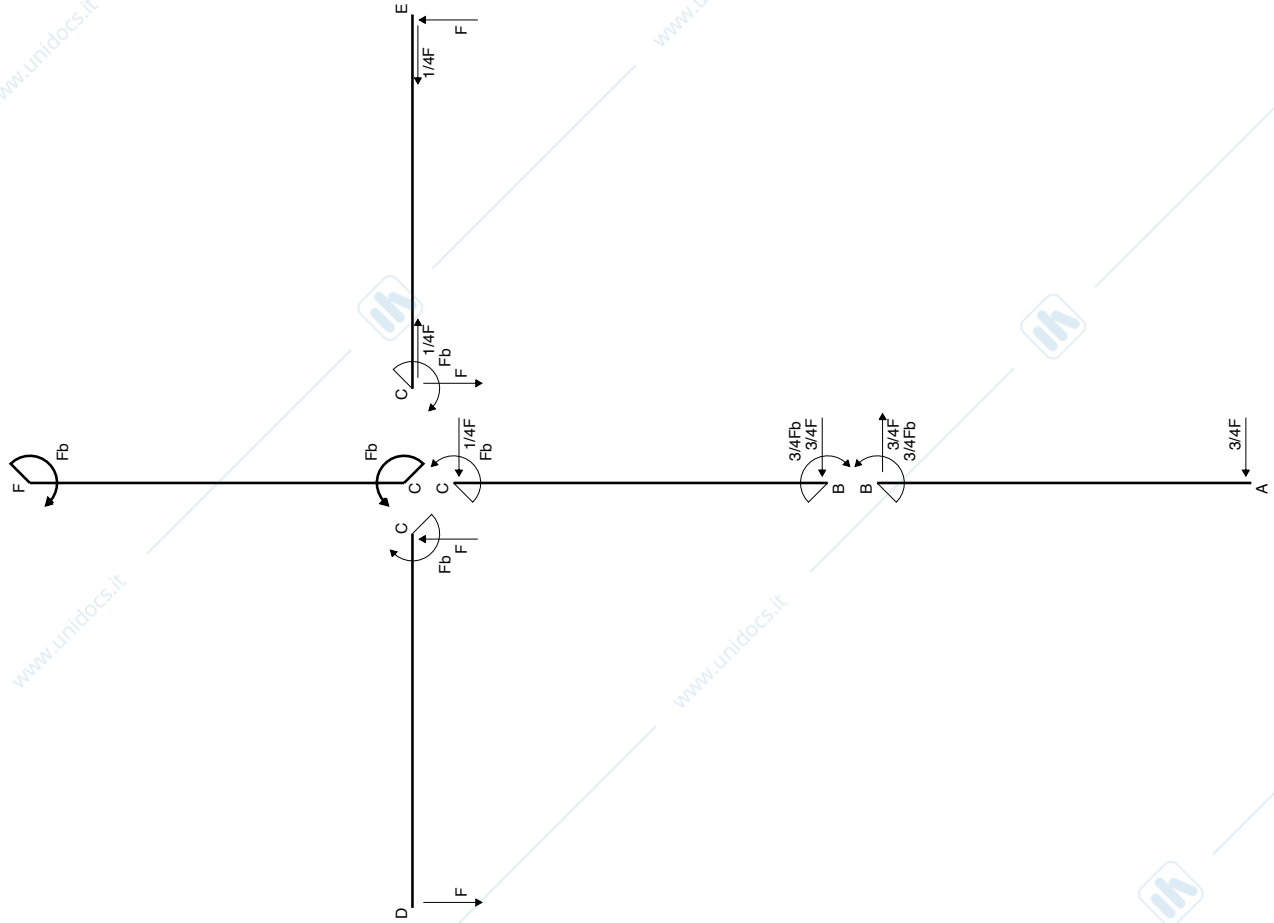
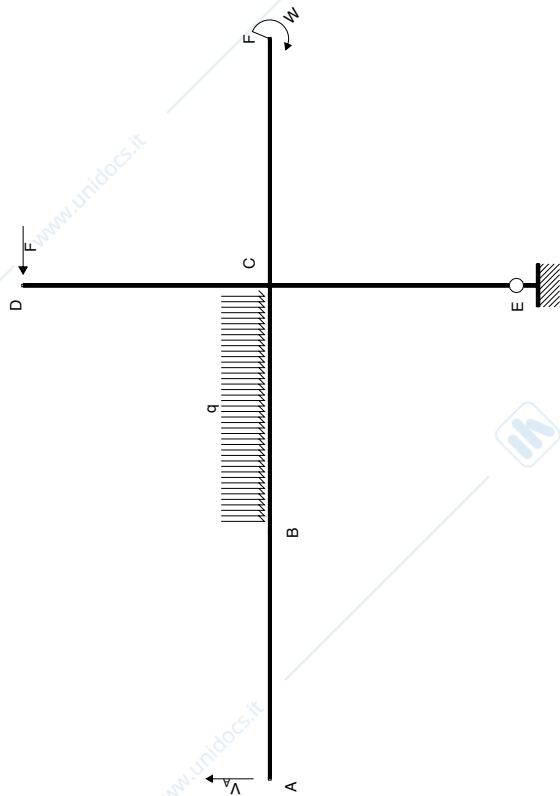
$$\left[ \begin{array}{c} \oplus \\ \downarrow \\ \ominus \end{array} \right] F_b$$

SMMS.017

REAZIONI Nome:

SMMS.017

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a E  
 $-2V_{A,b} = -2F_b + W - 1/2qb^2$

Matrice di equilibrio

$$[V_{A,b}] \begin{bmatrix} F_b & W & qb^2 \\ -2 & 1 & -1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} F_b & W & qb^2 \\ [V_{A,b}] \end{bmatrix} = \begin{bmatrix} 1 & -1/2 & 1/4 \end{bmatrix}$$

SMMS.017

PROCEDIMENTO E RISULTATI Nome:

SMMS.017

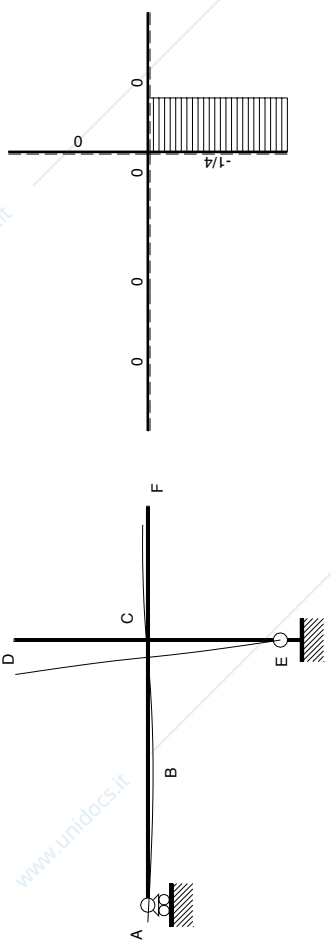
DEFORMATA E AZIONI INTERNE Nome:

23.10.23

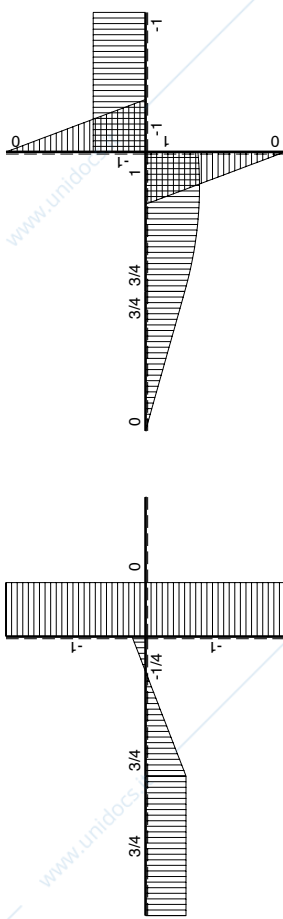
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$1 \text{---} 15 Fb^3/EJ$

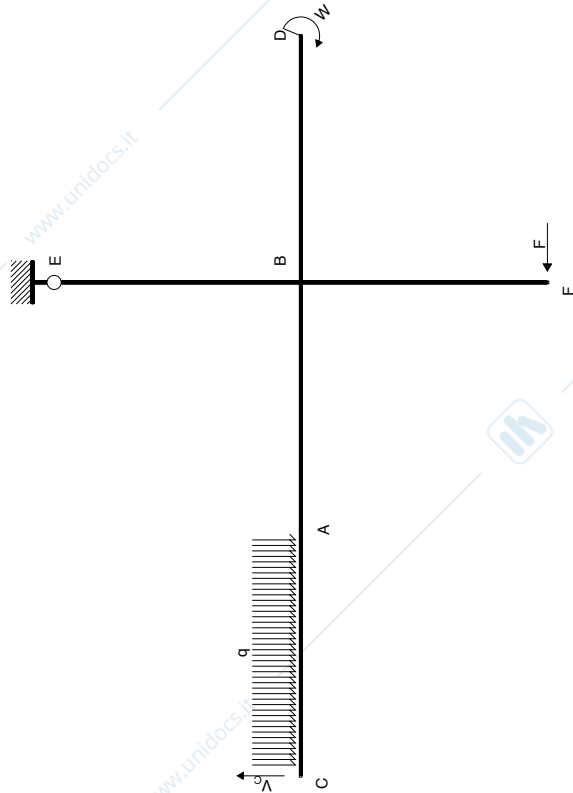


EQUILIBRIO Nome:

SMMS.018

REAZIONI Nome:

SMMS.018



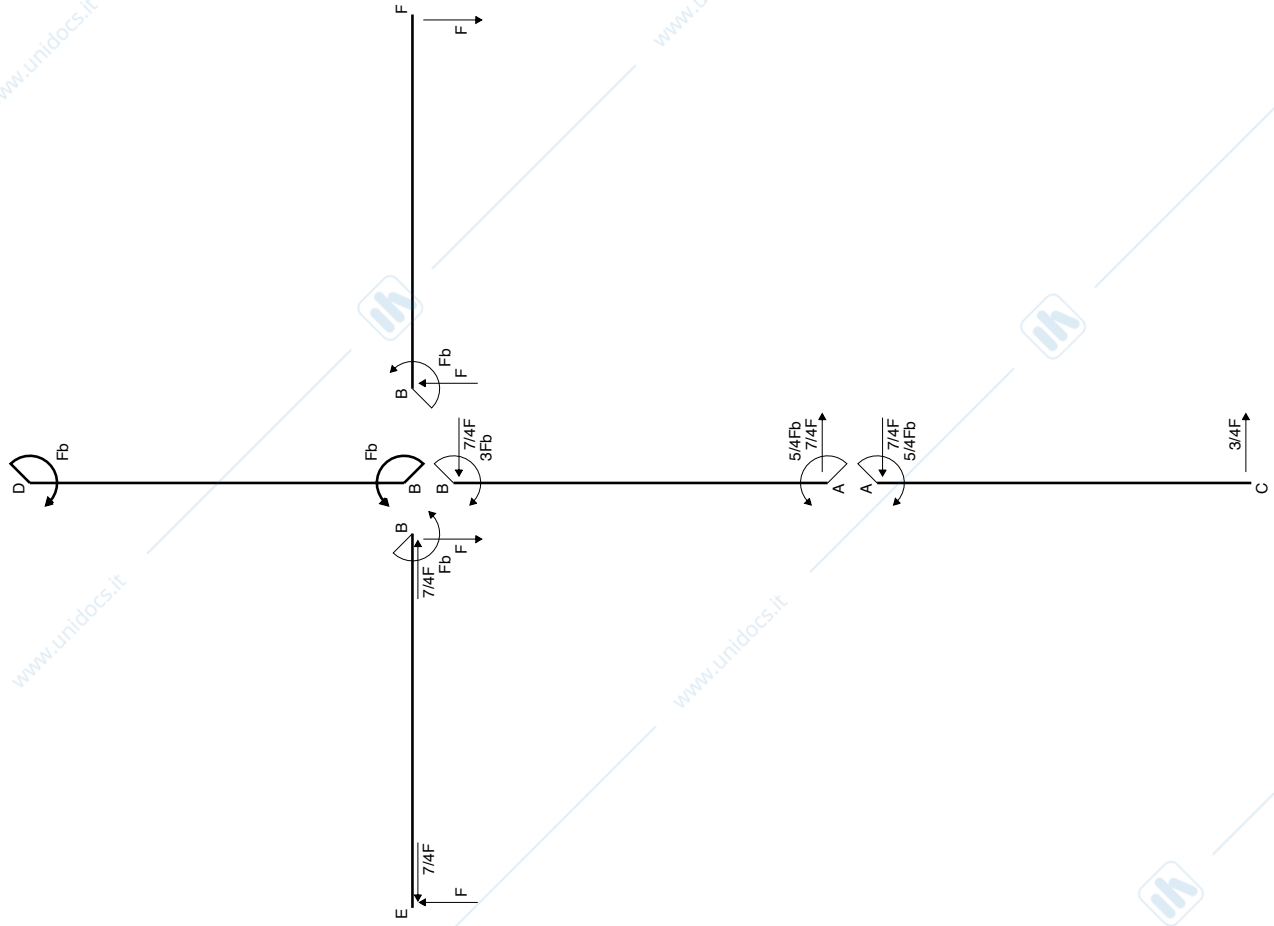
**EQUAZIONI DI EQUILIBRIO**  
 Rotazione globale intorno a E  
 $-2V_{c,b} = 2Fb + W - 3/2qb^2$

Matrice di equilibrio

$$[V_{c,b}] \begin{bmatrix} Fb & W & qb^2 \\ -2 & 1 & -3/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} Fb & W & qb^2 \\ [V_{c,b}] \end{bmatrix} = \begin{bmatrix} -1 & -1/2 & 3/4 \end{bmatrix}$$



SMMS.018

PROCEDIMENTO E RISULTATI Nome:

SMMS.018

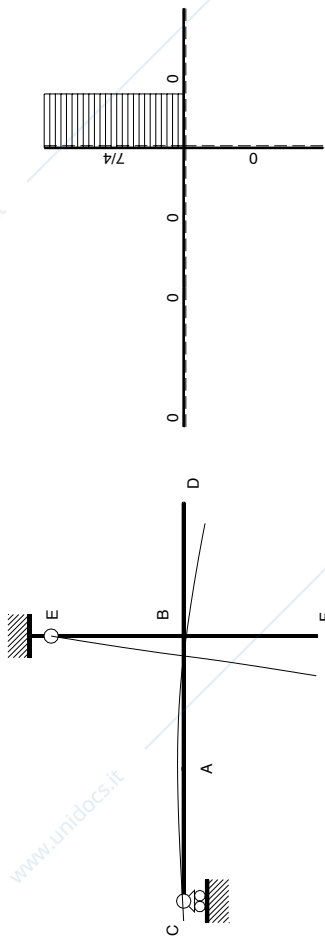
DEFORMATA E AZIONI INTERNE Nome:

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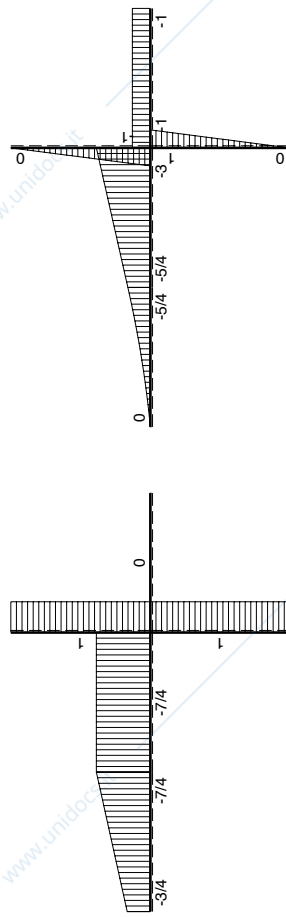
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$$\leftarrow \boxed{+} \rightarrow F$$

$$I - 18 Fb^3/EJ$$



$$\leftarrow \boxed{+} \rightarrow F_b$$

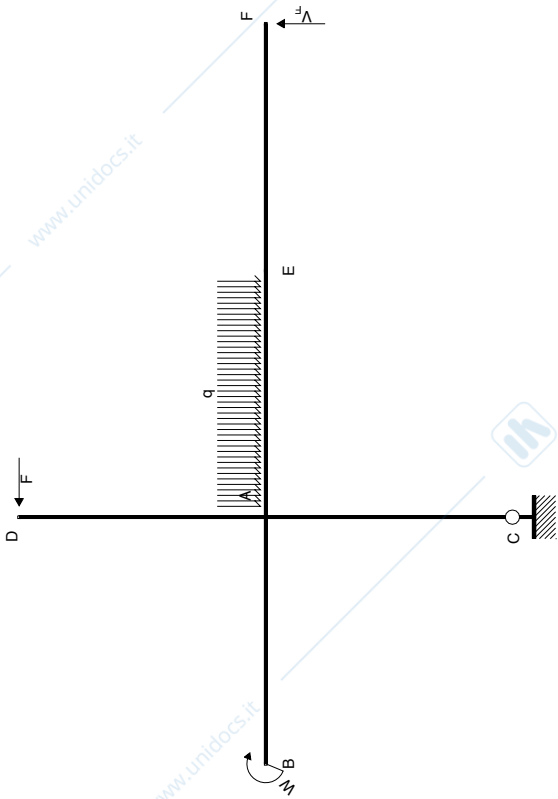
$$I \downarrow \downarrow F$$

SMMS.019

REAZIONI Nome:

SMMS.019

EQUILIBRIO Nome:



**EQUAZIONI DI EQUILIBRIO**

Rotazione globale intorno a C

$$2V_{F,b} = -2F_b + W + 1/2qb^2$$

Matrice di equilibrio

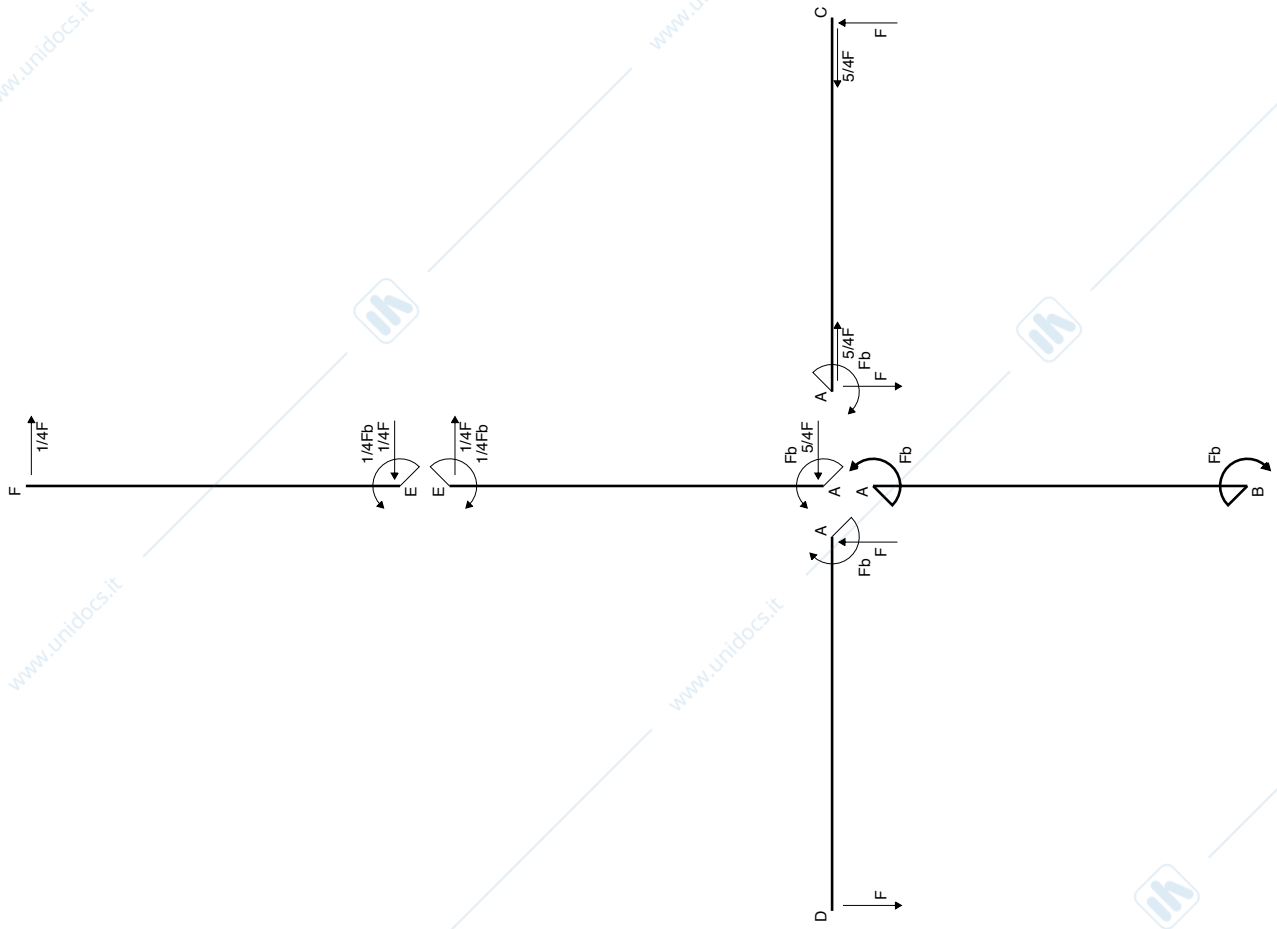
$$[V_{F,b}] \begin{bmatrix} F_b & W & qb^2 \end{bmatrix}$$

$$\varphi_c \begin{bmatrix} -2 & 1 & 1/2 \end{bmatrix}$$

Soluzione del sistema

$$\begin{bmatrix} F_b & W & qb^2 \end{bmatrix}$$

$$[V_{F,b}] = \begin{bmatrix} -1 & 1/2 & 1/4 \end{bmatrix}$$



SMMS.019

PROCEDIMENTO E RISULTATI Nome:

SMMS.019

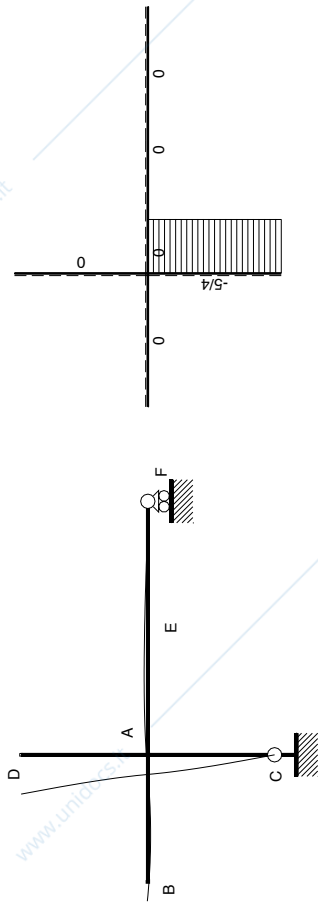
DEFORMATA E AZIONI INTERNE Nome:

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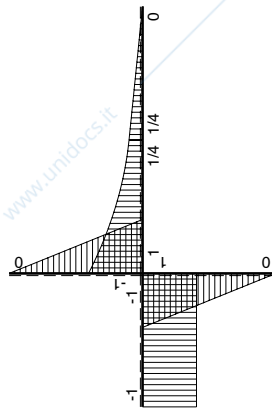
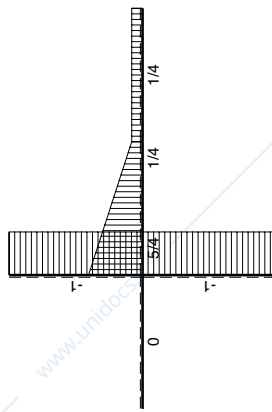
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$$\left[ \begin{matrix} + \\ - \end{matrix} \right] \rightarrow F$$

$$I - 13 Fb^3/EJ$$



$$\left[ \begin{matrix} + \\ - \end{matrix} \right] Fb$$

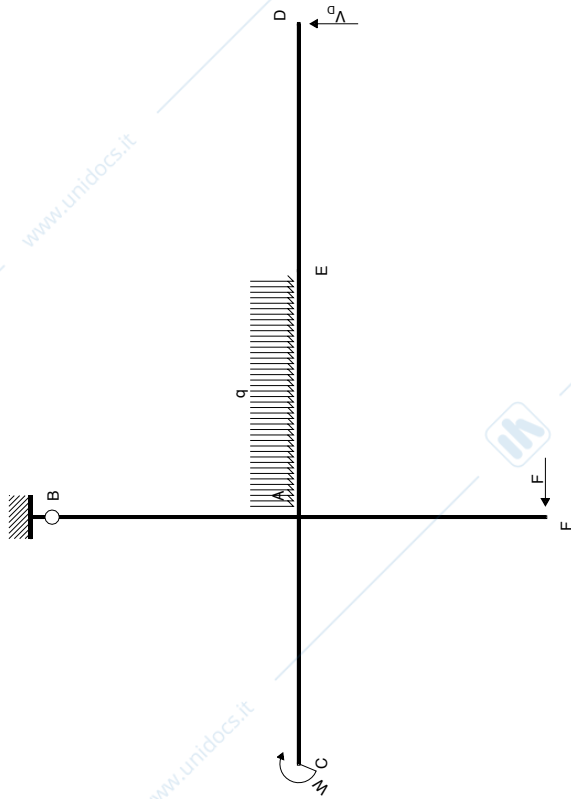
$$I \downarrow F$$

EQUILIBRIO Nome:

SMMS.020

REAZIONI Nome:

SMMS.020



EQUAZIONI DI EQUILIBRIO

Rotazione globale intorno a B

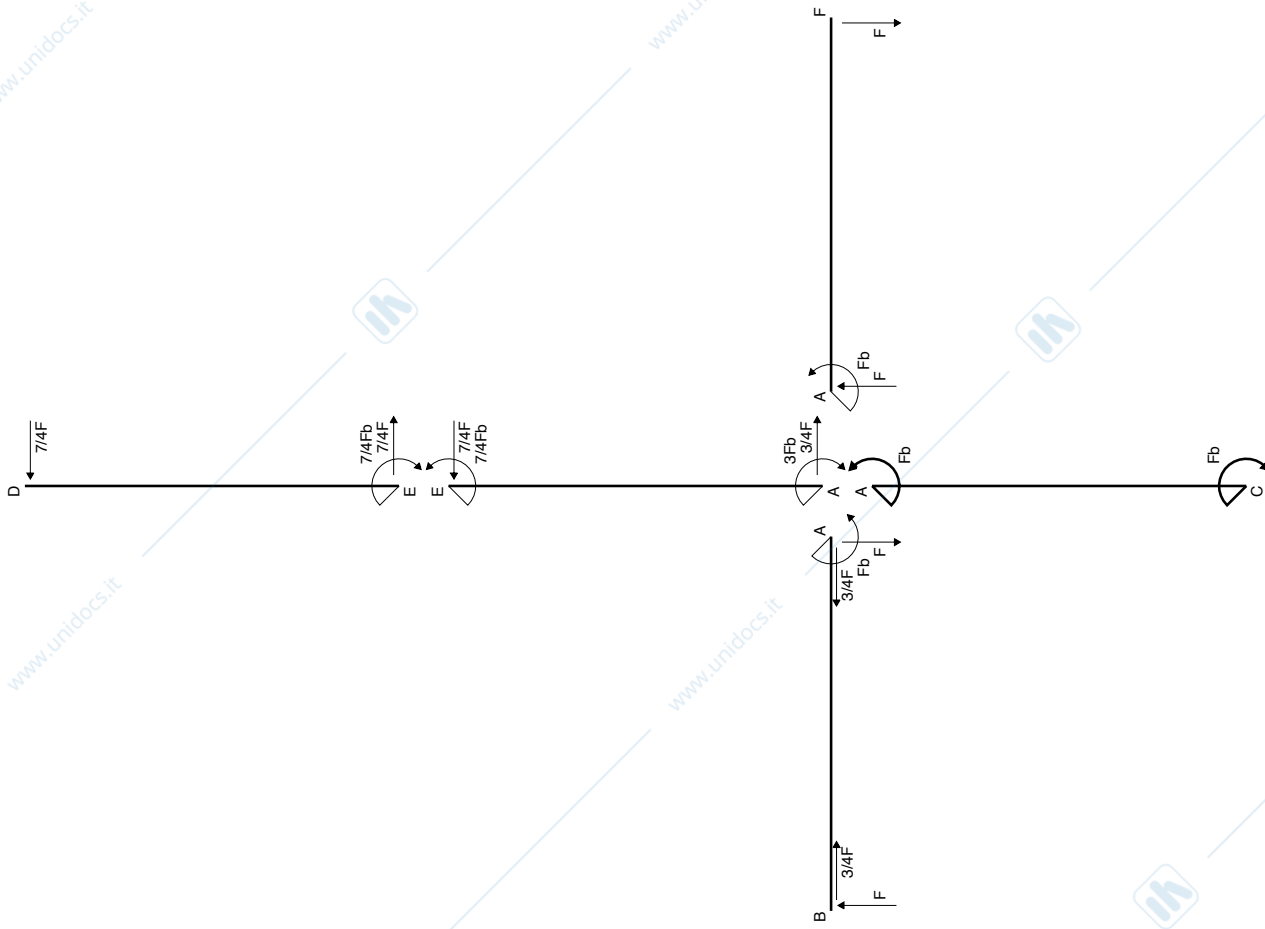
$$2V_{pb} = 2Fb + W + 1/2qb^2$$

Matrice di equilibrio

$$[V_{pb}] \begin{bmatrix} Fb & W & qb^2 \\ 2 & 1 & 1/2 \end{bmatrix}$$

Soluzione del sistema

$$[Fb \ W \ qb^2] [V_{pb}] = \begin{bmatrix} 1 & 1/2 & 1/4 \end{bmatrix}$$

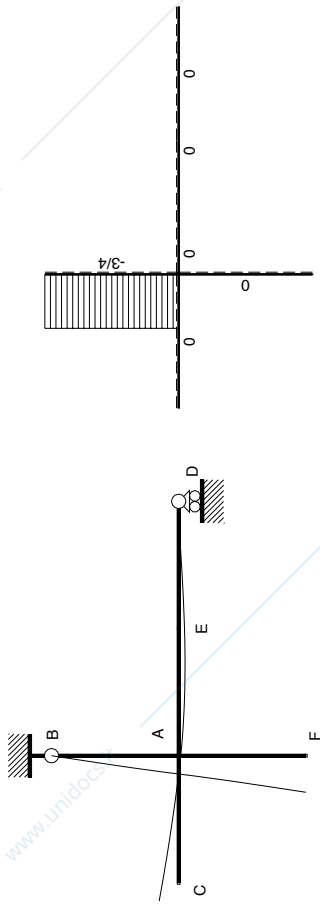


SMMS.020

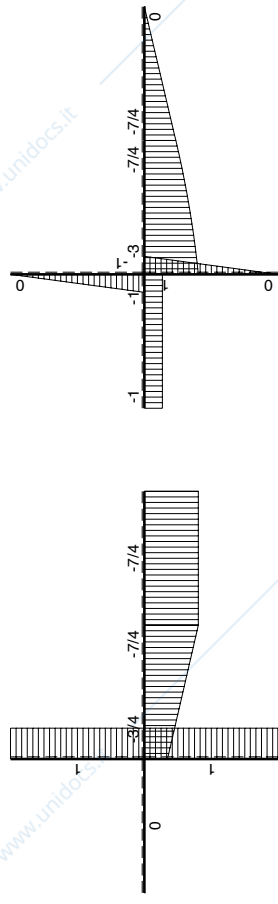
PROCEDIMENTO E RISULTATI Nome:

SMMS.020

DEFORMATA E AZIONI INTERNE Nome:



$1 \text{---} 10 Fb^3/EJ$



$1 \text{---} Fb$

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