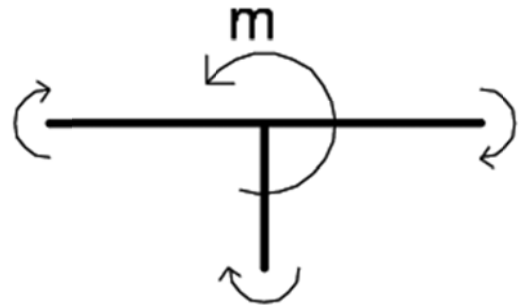


$$m = M_{BA} + M_{BD} + M_{BC}$$

$$M_{BA} = \varphi_B \cdot \frac{4EI}{l} ; M_{AB} = \varphi_B \cdot \frac{2EI}{l}$$

$$M_{BD} = \varphi_B \cdot \frac{4EI}{l} ; M_{DB} = \varphi_B \cdot \frac{2EI}{l}$$

$$M_{BC} = \varphi_B \cdot \frac{8EI}{l} ; M_{CB} = \varphi_B \cdot \frac{4EI}{l}$$



Equazione di equilibrio

$$m = \varphi_B \cdot \frac{4EI}{l} + \varphi_B \cdot \frac{4EI}{l} + \varphi_B \cdot \frac{8EI}{l} \quad \Rightarrow \quad m = \varphi_B \left( \frac{4EI}{l} + \frac{4EI}{l} + \frac{8EI}{l} \right)$$

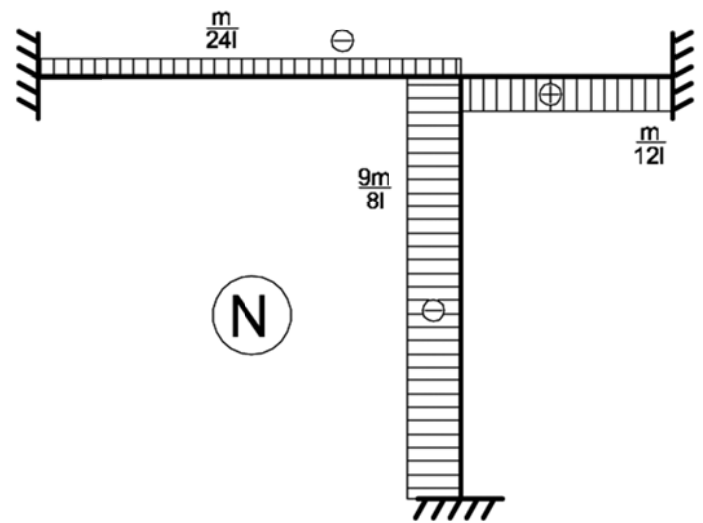
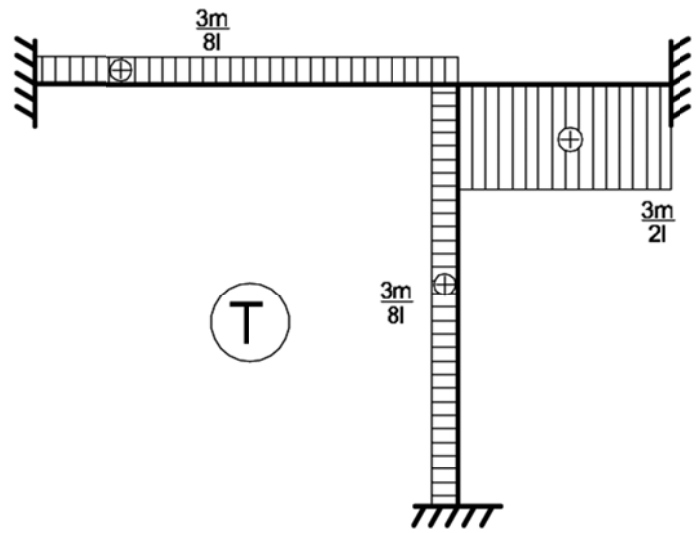
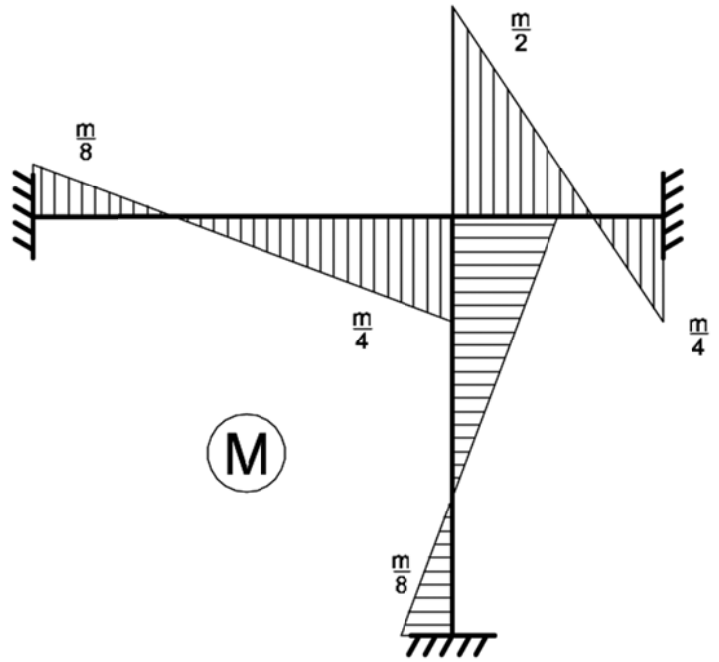
$$m = \varphi_B \cdot \frac{16EI}{l}$$

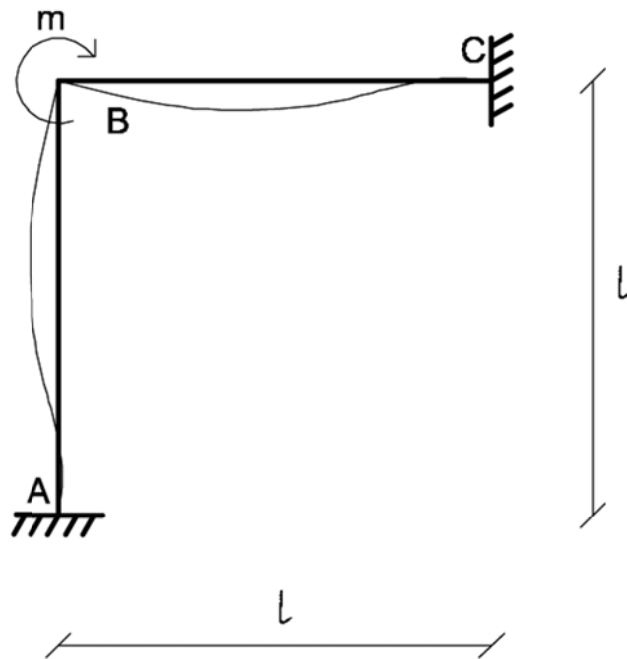
$$\varphi_B = \frac{ml}{16EI}$$

$$M_{BA} = \frac{m}{4} \quad ; \quad M_{AB} = \frac{m}{8}$$

$$M_{BD} = \frac{m}{4} \quad ; \quad M_{DB} = \frac{m}{8}$$

$$M_{BC} = \frac{m}{2} \quad ; \quad M_{CB} = \frac{m}{4}$$





$$m = M_{BA} + M_{BC}$$

$$M_{BA} = \varphi_B \cdot \frac{4EI}{l} \quad / \quad M_{BC} = \varphi_B \cdot \frac{4EI}{l}$$

equazione di equilibrio

$$m = \varphi_B \left( \frac{4EI}{l} + \frac{4EI}{l} \right) \Rightarrow \varphi_B \left( \frac{8EI}{l} \right) \Rightarrow \frac{\varphi_B}{m} = \frac{l}{8EI}$$

$$\Rightarrow \varphi_B = \frac{ml}{8EI}$$

$$M_{BA} = \frac{m}{2} \quad ; \quad M_{AB} = \frac{m}{4}$$

$$M_{BC} = \frac{m}{2} \quad ; \quad M_{CB} = \frac{m}{4}$$

