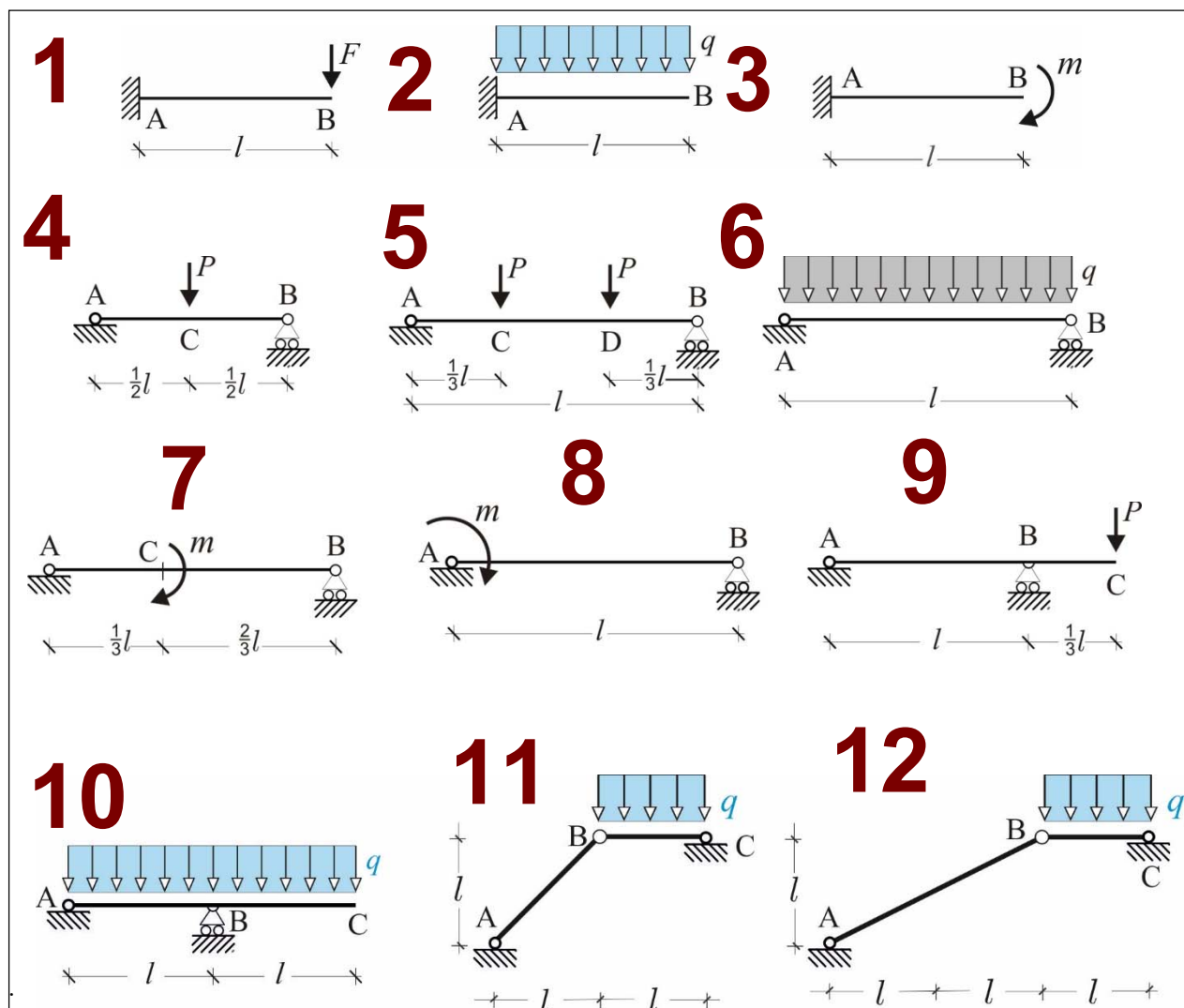


(E08)

Diagrammi CdS: Schemi isostatici ricorrenti

Problemi 1-12. Per ciascuna delle strutture riportate in figura (cfr. E05): **1)** verificarne in modo diretto l'isostaticità; **2)** determinare le reazioni vincolari e disegnare la struttura sostituendo ai vincoli le reazioni calcolate (*diagramma di struttura libera*); **3)** tracciare i diagrammi delle caratteristiche della sollecitazione (c.d.s.); **4)** scrivere le leggi di variazione delle c.d.s. in un opportuno sistema di riferimento locale.



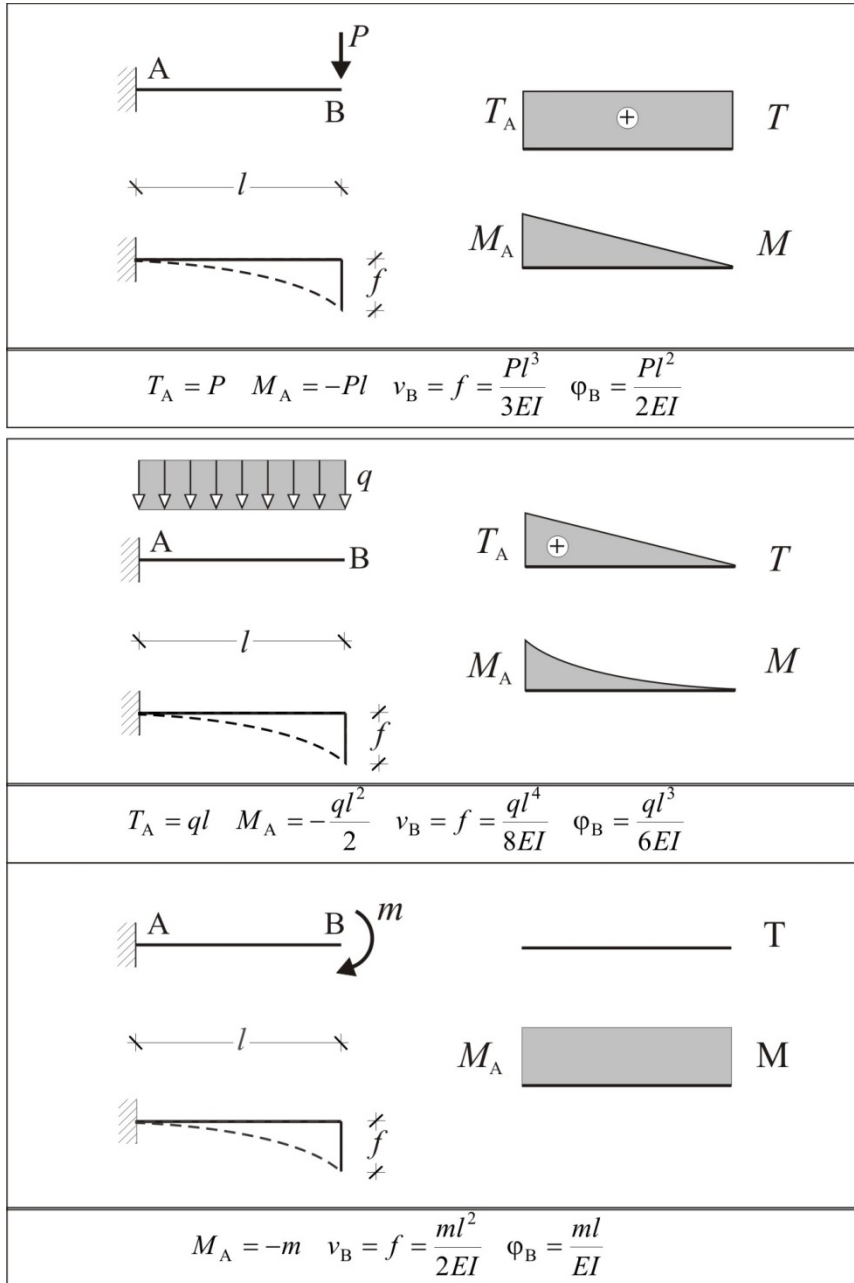
COGNOME.....
NOME.....
MAT.....

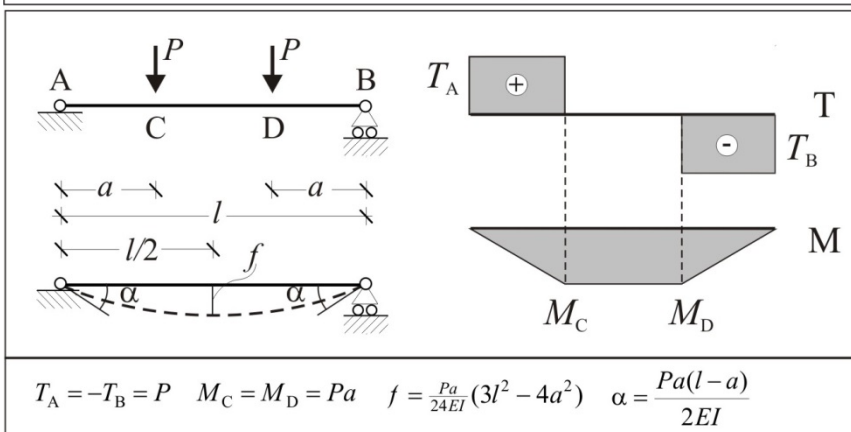
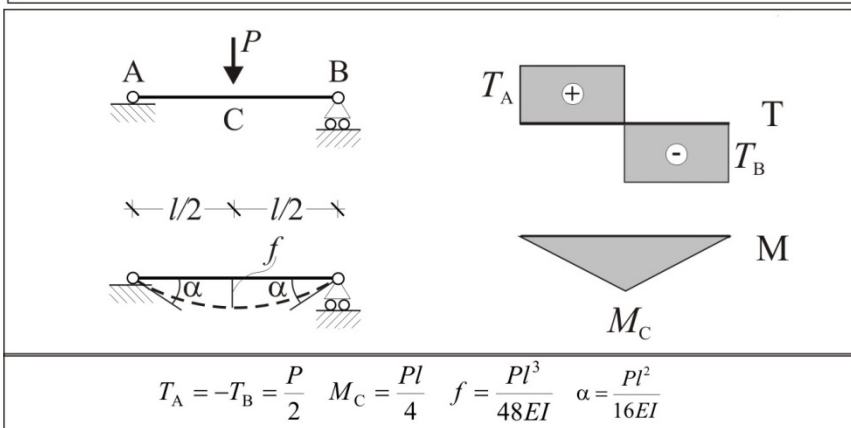
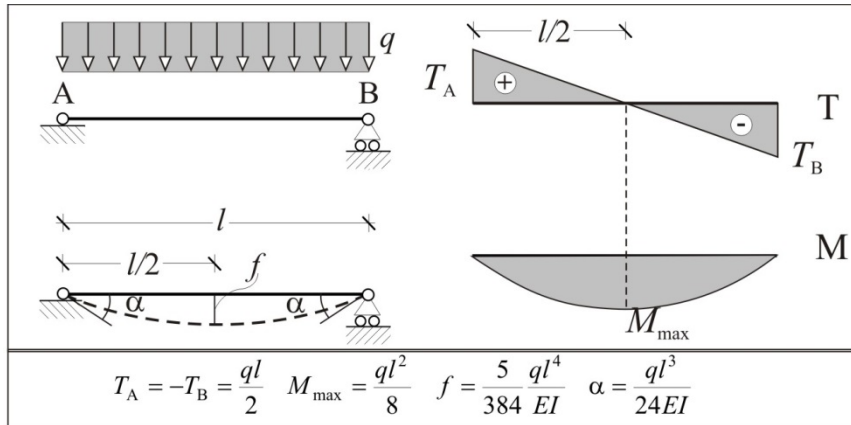
SITO

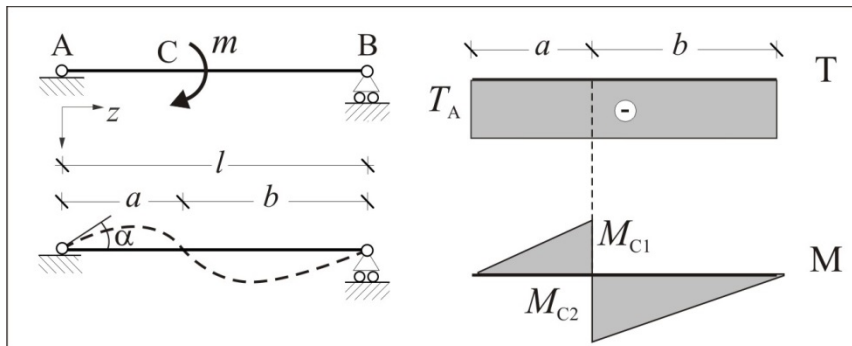
www.pcasini.it/disg/sdc

(Soluzioni in **Appendice B: B1-B2**)

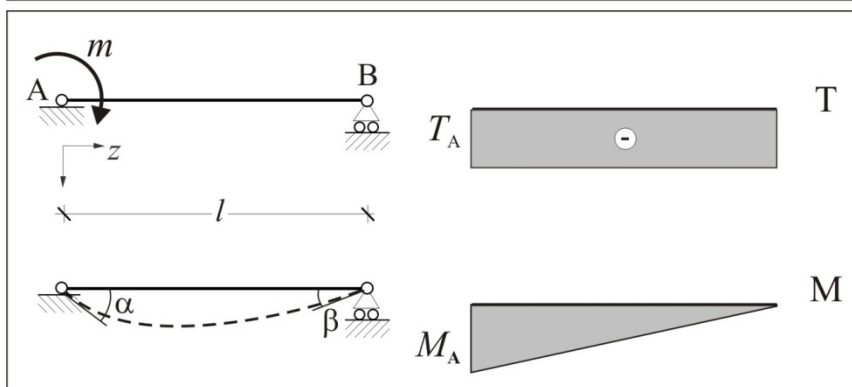
(E08)
Soluzioni 1-10



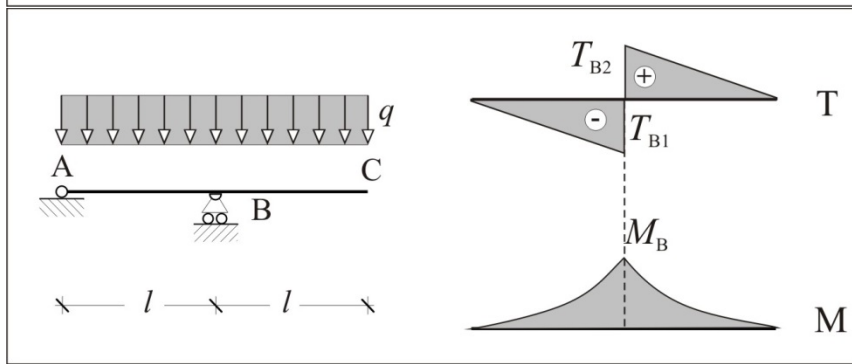




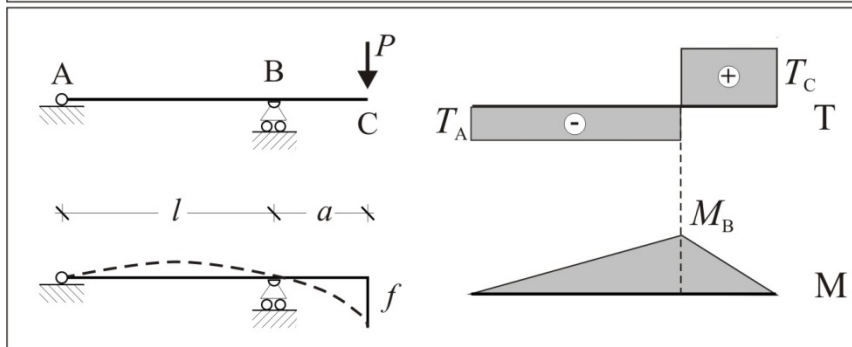
$$T_A = -\frac{m}{l} \quad M_{C1} = -\frac{m}{l}a \quad M_{C2} = \frac{m}{l}b \quad \alpha = \frac{m(l^2 - 3b^2)}{6EI}$$



$$T_A = -\frac{m}{l} \quad M_A = m \quad \alpha = \frac{ml}{3EI} \quad \beta = \frac{ml}{6EI}$$



$$T_{B1} = -ql \quad T_{B2} = ql \quad M_B = -\frac{ql^2}{2}$$



$$T_A = -\frac{a}{l}P \quad T_C = P \quad M_B = -Pa \quad f = \frac{a^2(l+a)}{3} \frac{P}{EI}$$