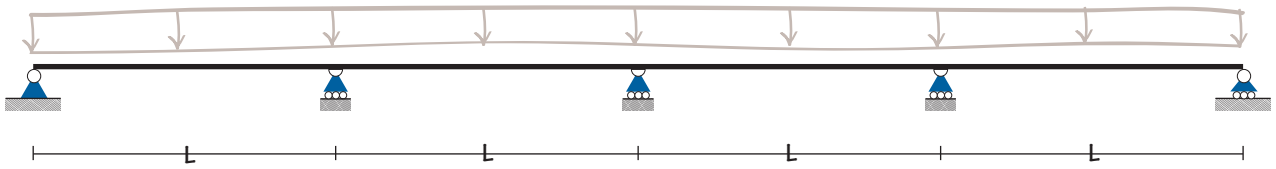
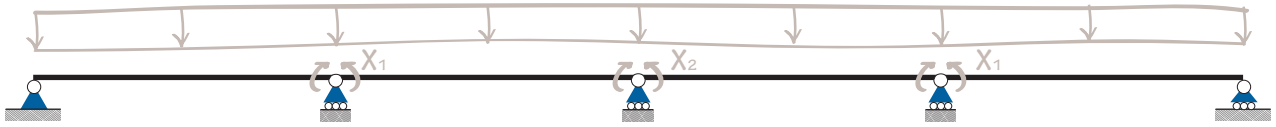


Struttura iperstatica



Struttura isostatica equivalente

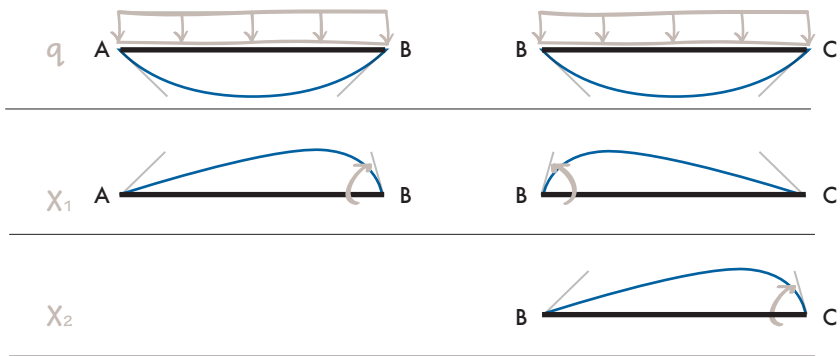


Equazioni di compatibilità cinematica:

$$\Delta\varphi_B = \Delta\varphi_D = 0 \quad \text{per simmetria}$$

$$\Delta\varphi_B = \Delta\varphi_{BS} + \Delta\varphi_{BD}$$

Contributi:



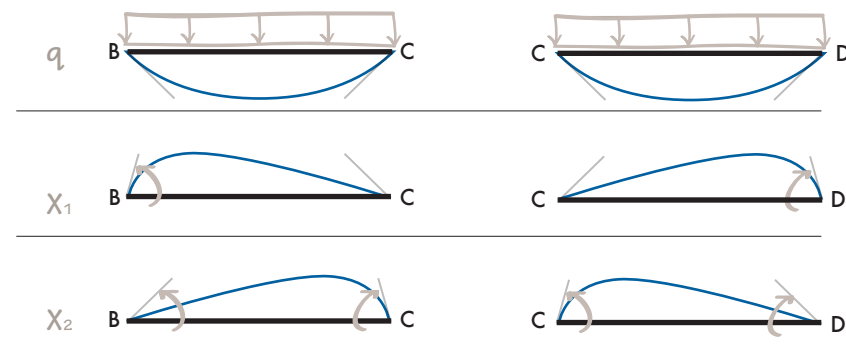
$$\Delta\varphi_{BS} = + \frac{ql^3}{24EJ} - \frac{X_1 l}{3EJ}$$

$$\Delta\varphi_{BD} = - \frac{ql^3}{24EJ} + \frac{X_1 l}{3EJ} + \frac{X_2 l}{6EJ}$$

$$\Delta\varphi_C = 0$$

$$\Delta\varphi_C = \Delta\varphi_{CS} + \Delta\varphi_{CD}$$

Contributi:



$$\Delta\varphi_{CS} = + \frac{ql}{24EJ} - \frac{X_1 l}{6EJ} - \frac{X_2 l}{3EJ}$$

$$\Delta\varphi_{CD} = - \frac{ql}{24EJ} + \frac{X_1 l}{6EJ} + \frac{X_2 l}{3EJ}$$