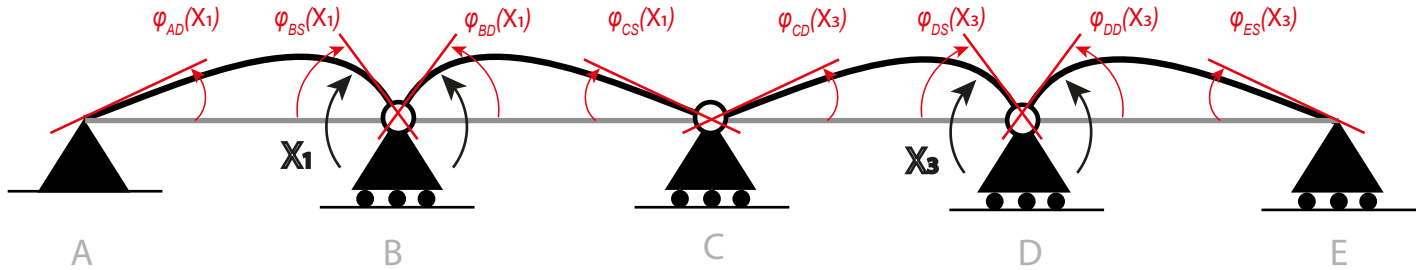


Effetto cinematico dovuto a X_1, X_3 :



$$\varphi_{BS}(X_1) = -XL / 3EI$$

$$\varphi_{BD}(X_1) = XL / 3EI$$

$$\Delta\varphi_B(X_1) = -2XL / 3EI$$

$$\varphi_{CS}(X_1) = -XL / 6EI$$

$$\varphi_{CD}(X_3) = XL / 6EI$$

$$\varphi_{DS}(X_3) = -XL / 3EI$$

$$\varphi_{DD}(X_3) = XL / 3EI$$

$$\Delta\varphi_D(X_3) = -2XL / 3EI$$

$$\Delta\varphi_B(X_1) = \varphi_{BS}(X_1) - \varphi_{BD}(X_1) = -XL / 3EI - XL / 3EI = -2XL / 3EI$$

$$\Delta\varphi_D(X_3) = \varphi_{DS}(X_3) - \varphi_{DD}(X_3) = -XL / 3EI - XL / 3EI = -2XL / 3EI$$