

$X$ 

$$E = 7E+09 \text{ Pa}$$

$$\nu = 0.35$$

$$\rho = 2712 \text{ kg/m}^3$$

$$l = 10 \text{ m}$$

 $Z$ 

$$m = 271.2 \text{ kg}$$

$$k = 10707 \text{ N/m}$$

$$c = 20.7 \text{ N-s/m}$$

