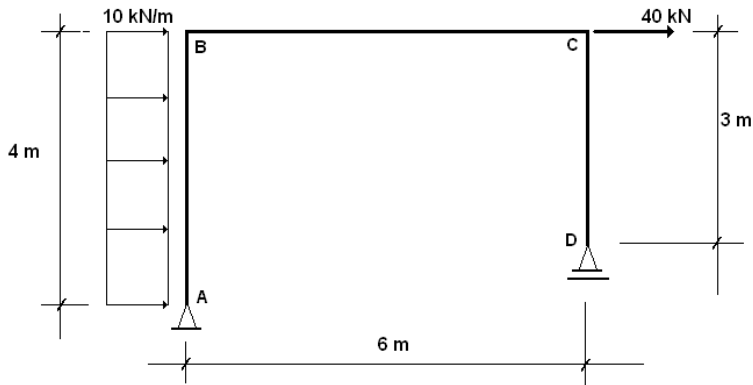


LISTA DE EXERCÍCIOS – TEORIA DAS ESTRUTURAS 1 – B01

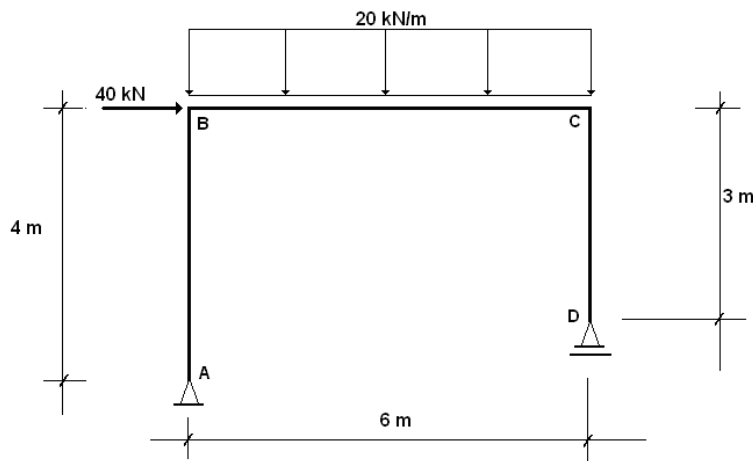
- 1) Considerando os esforços internos calcular a energia de deformação das estruturas a seguir:



$E = 205 \text{ GPa}$ .

Dimensões das barras  $AB= 20 \times 40$ ,  $BC=20 \times 50$ ,  $CD=20 \times 40$

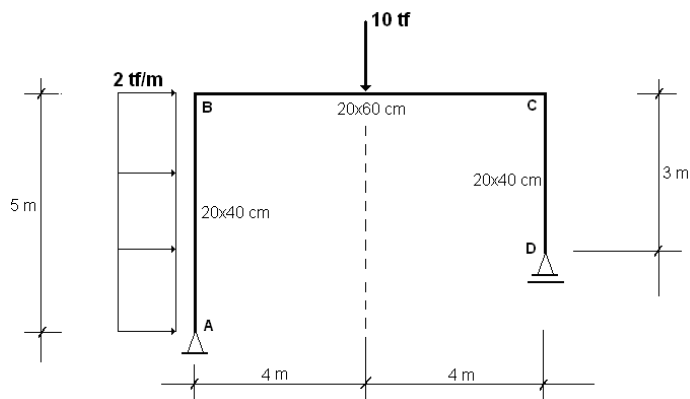
Coefficiente de Poisson=0,25



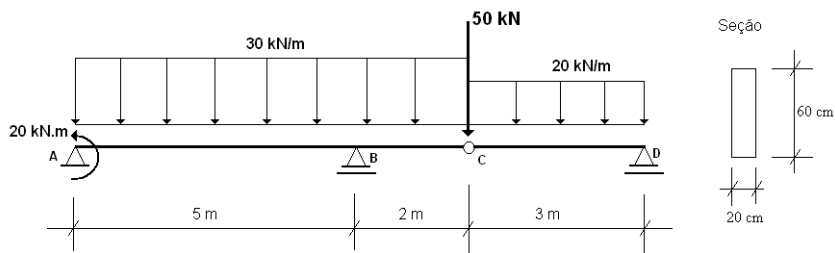
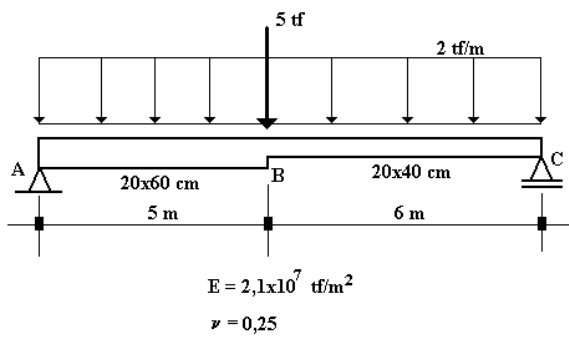
$E = 205 \text{ GPa}$ .

Dimensões das barras  $AB= 20 \times 40$ ,  $BC=20 \times 50$ ,  $CD=20 \times 40$

Coefficiente de Poisson=0,25



Dados:  $E = 2,1 \times 10^7 \text{ tf/m}^2$ .



2) Calcular a energia de deformação total para as treliças mostradas nas figuras a seguir. Dados:  $EA = 10^4 \text{ tf}$  (Para todas as barras).

