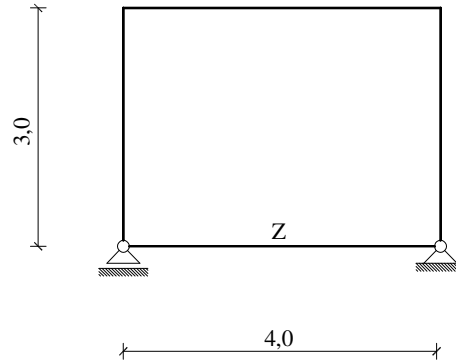


## GS 2. – 08.09.2009.

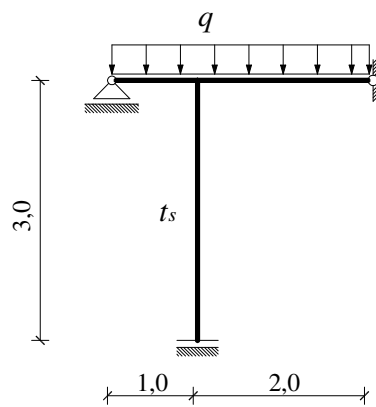
1. Odredite utjecajnu liniju za uzdužnu silu u štapu Z.



$$\frac{b}{h} = \frac{50}{50} \text{ cm}$$

$$E = 3 \cdot 10^7 \text{ kN/m}^2$$

2. Metodom relaksacije odredite momentni dijagram.



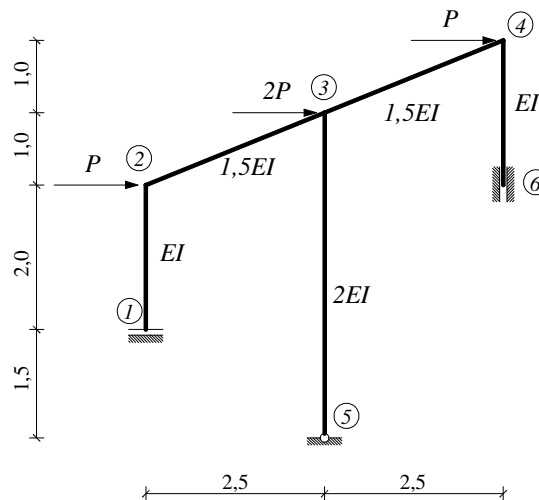
$$EI = 85000 \text{ kNm}^2$$

$$q = 40 \text{ kN/m}$$

$$t_s = 22^\circ \text{ C}$$

$$\alpha_t = 10^{-5} \text{ K}^{-1}$$

3. Za zadani sustav odredite nepoznanice za inženjersku metodu pomaka, skicirajte planove pomaka za neovisne translacijske pomake i napišite sustav jednažbi (ravnoteže momenata i virtualnih radova) u općem obliku.



$$P = 273 \text{ kN}$$

$$EI = 100000 \text{ kNm}^2$$