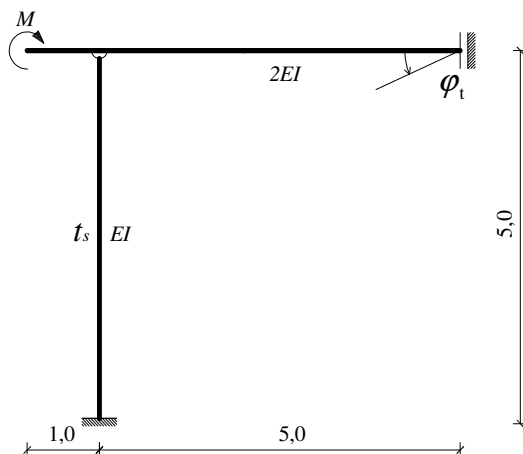


GS 2. – 1. kolokvij (A) – (2011./2012.)

1. (20) Inženjerskom metodom pomaka odredite dijagram momenata savijanja i dijagram poprečnih sila.



$$EI = 80000 \text{ kNm}^2$$

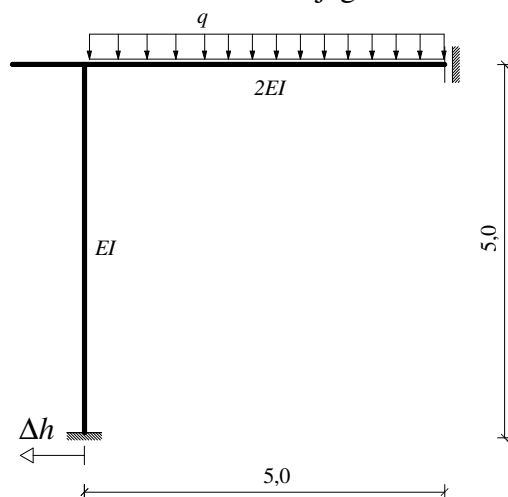
$$t_s = 18^\circ \text{ C}$$

$$\varphi_t = 0,0006$$

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

$$M = 170 \text{ kNm}$$

2. (30) Relaksacijskim metodama odredite dijagram momenata savijanja.

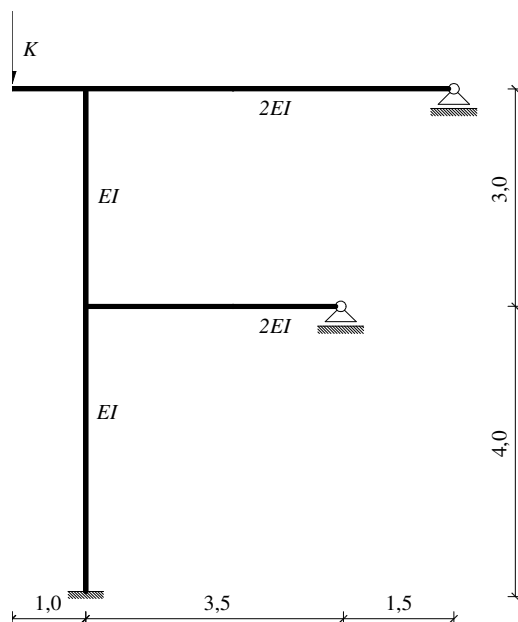


$$EI = 80000 \text{ kNm}^2$$

$$\Delta h = 2,3 \text{ cm}$$

$$q = 30 \text{ kN/m}$$

3. (50) Primjenom metode Crossa i metode Werner-Csonke odredite dijagram M .

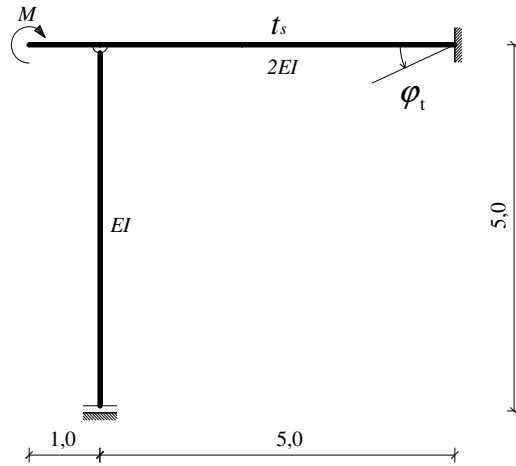


$$EI = 80000 \text{ kNm}^2$$

$$K = 100 \text{ kN}$$

GS 2. – 1. kolokvij (B) – (2011./2012.)

1. (20) Inženjerskom metodom pomaka odredite dijagram momenata savijanja i dijagram poprečnih sila.



$$EI = 80000 \text{ kNm}^2$$

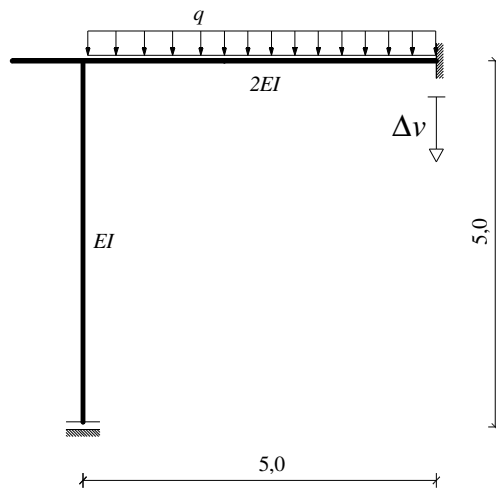
$$t_s = 18^\circ \text{ C}$$

$$\varphi_t = 0,0006$$

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

$$M = 170 \text{ kNm}$$

2. (30) Relaksacijskim metodama odredite dijagram momenata savijanja.

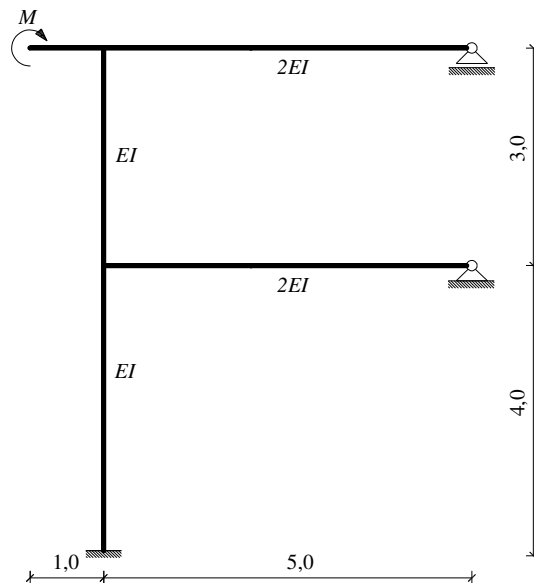


$$EI = 80000 \text{ kNm}^2$$

$$\Delta v = 2,5 \text{ cm}$$

$$q = 30 \text{ kN/m}$$

3. (50) Primjenom metode Crossa odredite dijagrame M , T , N .

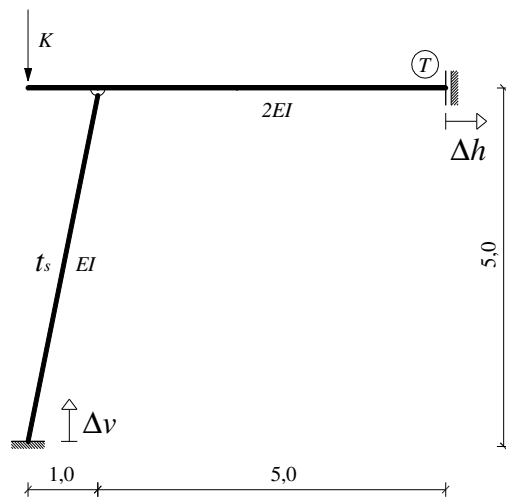


$$EI = 80000 \text{ kNm}^2$$

$$M = 100 \text{ kNm}$$

GS 2. – 1. kolokvij (C) – (2011./2012.)

1. (25) Inženjerskom metodom pomaka odredite vertikalni pomak točke T .



$$EI = 90000 \text{ kNm}^2$$

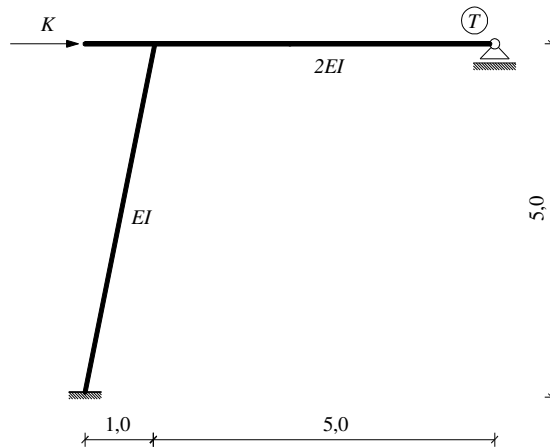
$$K = 120 \text{ kN}$$

$$t_s = -15^\circ \text{ C}$$

$$\Delta h = 1,5 \text{ cm}$$

$$\Delta v = 2 \text{ cm}$$

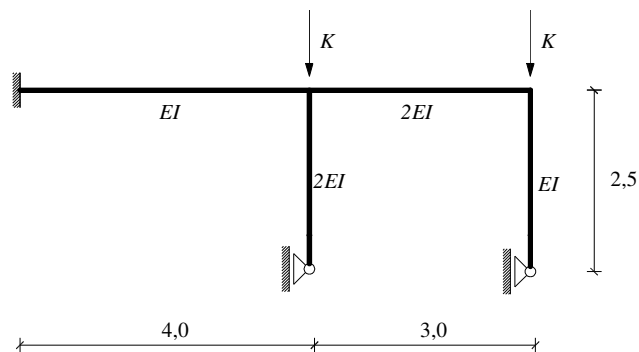
2. (25) Relaksacijskim metodama odredite pomak točke T .



$$EI = 90000 \text{ kNm}^2$$

$$K = 120 \text{ kN}$$

3. (50) Primjenom metode Crossa i metode Werner-Csonke odredite dijagram M .

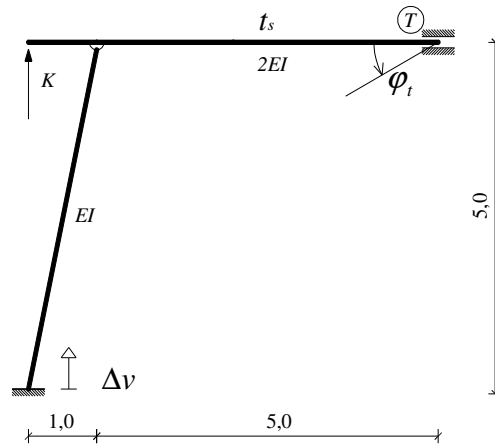


$$EI = 80000 \text{ kNm}^2$$

$$K = 150 \text{ kN}$$

GS 2. – 1. kolokvij (D) – (2011./2012.)

1. (25) Inženjerskom metodom pomaka odredite horizontalni pomak točke T .



$$EI = 90000 \text{ kNm}^2$$

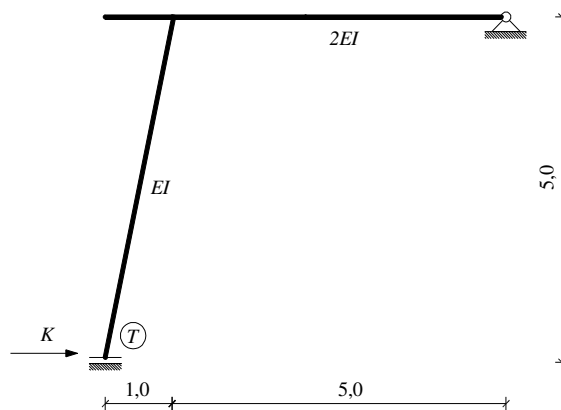
$$K = 100 \text{ kN}$$

$$t_s = -15^\circ \text{ C}$$

$$\Delta v = 2,1 \text{ cm}$$

$$\varphi_t = 0,0005$$

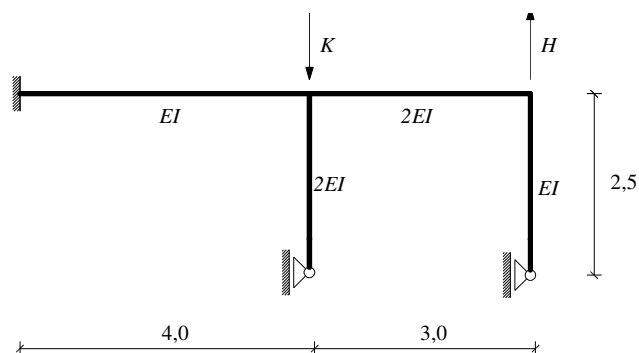
2. (25) Relaksacijskim metodama odredite pomak točke T .



$$EI = 90000 \text{ kNm}^2$$

$$K = 120 \text{ kN}$$

3. (50) Primjenom metode Crossa i metode Werner-Csonke odredite dijagram M .



$$EI = 80000 \text{ kNm}^2$$

$$K = 120 \text{ kN}$$

$$H = 200 \text{ kN}$$