

Opmerkingen: Zie §2.3, blz. 22 t/m 23

Zie §2.6, blz. 32 en verder

Antwoorden 2.28-1:

- | | | |
|--|-------------------------------------|--------------------------------------|
| a. $N^{AB} = +50 \text{ kN}$ | $N^{BC} = +40 \text{ kN}$ | $N^{CD} = +60 \text{ kN}$ |
| b. $\varepsilon^{AB} = 1 \text{ ‰}$ | $\varepsilon^{BC} = 1,25 \text{ ‰}$ | $\varepsilon^{CD} = 0,75 \text{ ‰}$ |
| c. $\Delta \ell^{AB} = 0,4 \text{ mm}$ | $\Delta \ell^{BC} = 1,0 \text{ mm}$ | $\Delta \ell^{CD} = 0,45 \text{ mm}$ |
| d. $\Delta \ell = 1,85 \text{ mm}$ | | |

Toelichting 2.28-1/2:

$$EA^{AB} = 50 \times 10^3 \text{ kN}$$

$$EA^{BC} = 32 \times 10^3 \text{ kN}$$

$$EA^{CD} = 80 \times 10^3 \text{ kN}$$

Antwoorden 2.28-2:

- | | | |
|--|---------------------------------------|-------------------------------------|
| a. $N^{AB} = +25 \text{ kN}$ | $N^{BC} = -20 \text{ kN}$ | $N^{CD} = +40 \text{ kN}$ |
| b. $\varepsilon^{AB} = 0,5 \text{ ‰}$ | $\varepsilon^{BC} = -0,625 \text{ ‰}$ | $\varepsilon^{CD} = 0,5 \text{ ‰}$ |
| c. $\Delta \ell^{AB} = 0,2 \text{ mm}$ | $\Delta \ell^{BC} = -0,5 \text{ mm}$ | $\Delta \ell^{CD} = 0,3 \text{ mm}$ |
| d. $\Delta \ell = 0$ | | |