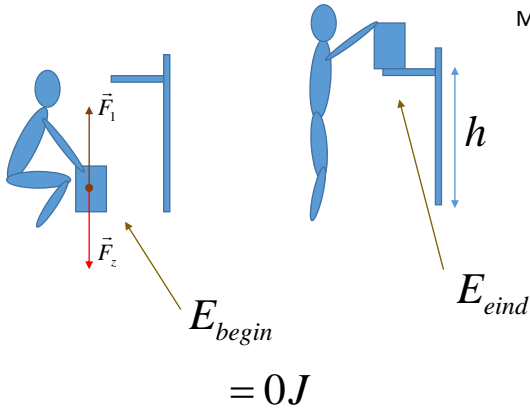


Energie

Potentiële gravitatie-energie



Met constante snelheid optillen:.

Resultante kracht = 0N

$$F_1 = F_z$$

$$W = F_1 \cdot \Delta x$$

$$W = m \cdot g \cdot \Delta x$$

$$W = m \cdot g \cdot h \quad \Delta E = W$$

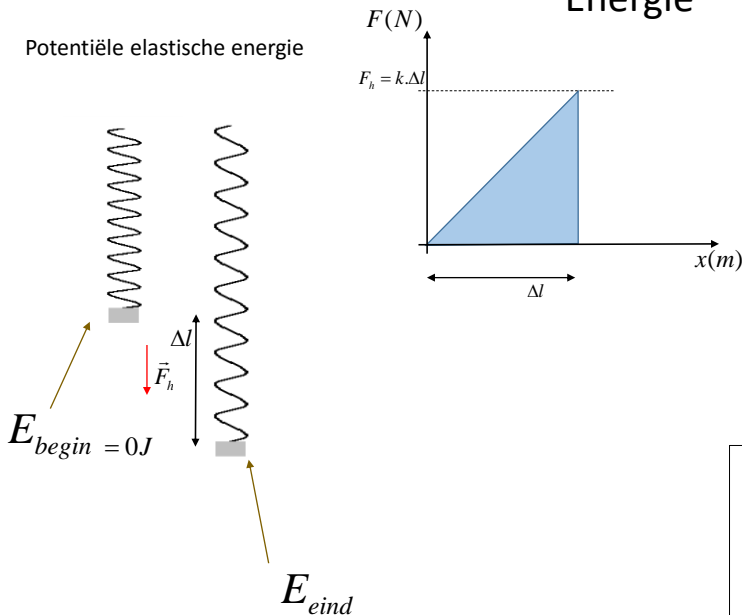
$$\Delta E = m \cdot g \cdot h$$

$$E_{eind} - E_{begin} = m \cdot g \cdot h$$

$$E_{p,z} = m \cdot g \cdot h$$

Energie

Potentiële elastische energie



$$W = \frac{k \cdot (\Delta l)^2}{2}$$

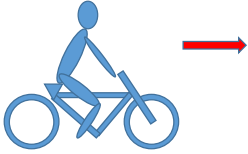
$$\Delta E = W$$

$$E_{eind} - E_{begin} = \frac{k \cdot (\Delta l)^2}{2}$$

$$E_{p,v} = \frac{k \cdot (\Delta l)^2}{2}$$

Energie

Kinetische energie



$$W = \frac{m \cdot v^2}{2}$$

$$E_{\text{eind}} - E_{\text{begin}} = \frac{m \cdot v^2}{2}$$

$$E_k = \frac{m \cdot v^2}{2}$$