

ENERGIJA

Kinetična – $W_k = mv^2/2$

$A_{vib} = mv_2^2/2 - mv_1^2/2$ ($A=Fs$)

$W_{k2} - W_{k1} = \Delta W_k$

Potencialna – $A_g = F_g h \cos 180^\circ = -mgh$

$W_p = mgz$ (z =višinska koordinata)

$A_g = mgz_1 - mgz_2 = W_{p1} - W_{p2} = -\Delta W_p$

$A_{vib} = A + A_g \quad A = \Delta W_k + \Delta W_p$

$W_{k2} + W_{p2} = W_{k1} + W_{p1} + A$

($A=0$) $W_{k1} + W_{p1} = W_{k2} + W_{p2}$

prožnostna – $A = \Delta W_k + \Delta W_p + \Delta W_{pr}$

$\Delta W_{pr} = W_{pr2} - W_{pr1}$

$W_{pr} = kx^2/2 - k = \text{konst.}$ Prožnosti, ki je defi. Za x)