Energy

VerticalForceInternal
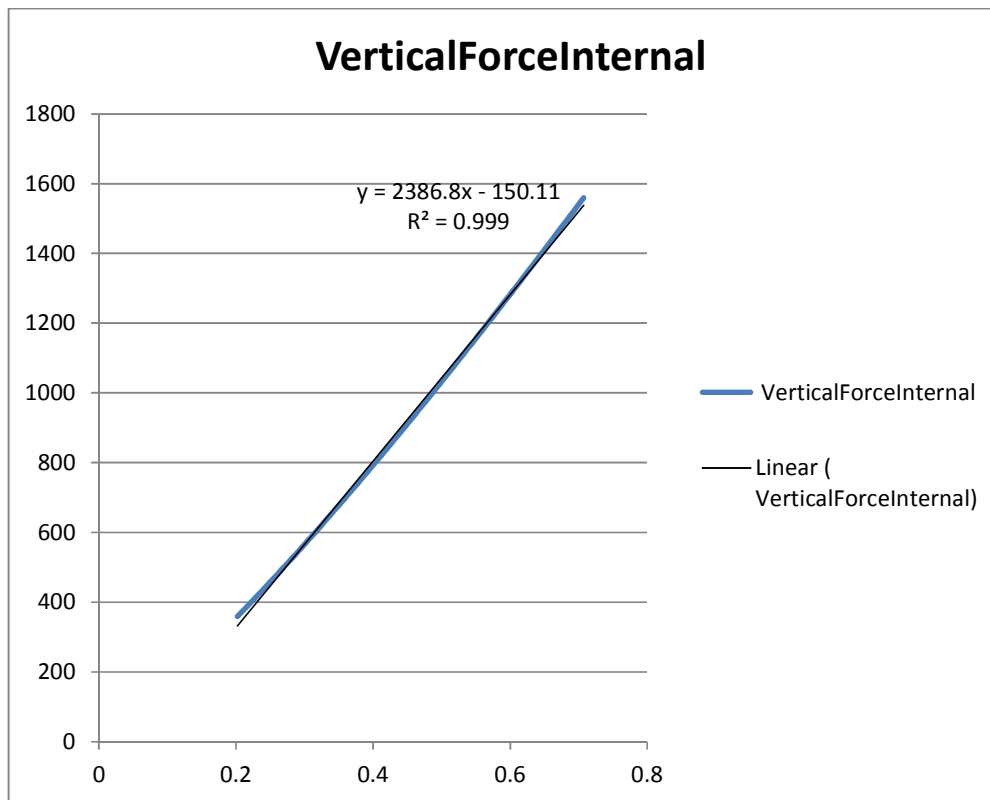
- The energy has two minima
- Force is zero at minima and maxima of energy
- The vertical external force is constant

VerticalForceInternal

$y = 2386.8x - 150.11$
$R^2 = 0.999$

- The stiffness is regressed around 2386.8
- Taking the first 103 points (the most 103 point from the right of force vs. displacement figure) and make linear regression