

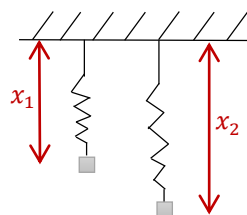
HOOKOV ZAKON

$$F = k \cdot \Delta x \quad [N]$$

$$\Delta x = x_2 - x_1$$

$$k = \text{konstanta vzmeti} \quad \left[\frac{N}{m} \right]$$

$$\Delta x = \text{raztezek vzmeti} \quad [m]$$



Vzporedna vezava

	$F_1 = k_1 \cdot x_1 \qquad F_2 = k_2 \cdot x_2$ $x_1 = x_2 = x$ $F = F_1 + F_2 = k_1 \cdot x + k_2 \cdot x$ $F = x \cdot k_s \rightarrow k_s = k_1 + k_2$ $F = x \cdot (k_1 + k_2)$
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Zaporedna vezava

	$F_1 = F_2 = F$ $x_s = x_1 + x_2$ $\frac{1}{k_s} = \frac{1}{k_1} + \frac{1}{k_2} \rightarrow k_s = \left(\frac{1}{k_1} + \frac{1}{k_2} \right)^{-1}$ $F = x_s \cdot \left(\frac{1}{k_1} + \frac{1}{k_2} \right)^{-1}$
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