



— $V_{\alpha} \sin \alpha \approx \frac{1}{2} V_{\alpha} \sin 2\alpha$ (for small α),
 $V_{\alpha} \cos \alpha \approx V_{\alpha}$ (for small α),
 $V_{\alpha} \sin \alpha \approx \frac{1}{2} V_{\alpha} \sin 2\alpha$ (for small α),
 $V_{\alpha} \cos \alpha \approx V_{\alpha}$ (for small α).

$$- \frac{1}{\epsilon} \int_{\Omega} |\nabla u|^2 dx = \frac{1}{\epsilon} \int_{\Omega} |\nabla v|^2 dx - \frac{1}{\epsilon} \int_{\Omega} |\nabla w|^2 dx$$
$$\begin{array}{l} \text{[} \langle \text{ } \rangle \text{]} \\ \text{[} \langle \text{ } \rangle \text{]} \\ \text{[} \langle \text{ } \rangle \text{]} \end{array}$$

$$\begin{aligned}
 & \frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 + \frac{1}{2} m \dot{y}^2 + \frac{1}{2} m \dot{z}^2 \right) = \frac{d}{dt} (m \dot{x} \dot{x} + m \dot{y} \dot{y} + m \dot{z} \dot{z}) \\
 & = m \dot{x} \ddot{x} + m \dot{y} \ddot{y} + m \dot{z} \ddot{z} = m \dot{x} a_x + m \dot{y} a_y + m \dot{z} a_z \\
 & = m \dot{x} \frac{d^2 x}{dt^2} + m \dot{y} \frac{d^2 y}{dt^2} + m \dot{z} \frac{d^2 z}{dt^2} = m \frac{d}{dt} \left(\dot{x} \frac{d^2 x}{dt^2} + \dot{y} \frac{d^2 y}{dt^2} + \dot{z} \frac{d^2 z}{dt^2} \right)
 \end{aligned}$$

 $\pm 0.000 = 254,70 \text{ m n. m.}$

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