

- 2.4.4 $a = 5,425 \text{ m/s}^2$, $S_1 = 65,3 \text{ N}$,
 $S_2 = 89,4 \text{ N}$
- 2.4.5 $F_{S0}/F_S = (2 \cdot \cos^2 \alpha)^{-1}$
- 2.4.6 $F = 34,85 \text{ N}$
- 2.4.7 $a = 6,517 \text{ m/s}^2$, $S_1 = 3,745 \text{ N}$,
 $S_2 = 16,463 \text{ N}$, $a_1 = 7,0935 \text{ m/s}^2$
- 2.4.8 $a = 3,772 \text{ m/s}^2$, $F_o = 5,662 \text{ N}$
 (vlak), $l = 0,5056 \text{ m}$
- 2.4.9 $a = 1,984 \text{ m/s}^2$, $s = 194,5 \text{ m}$,
 $F_p = 8168 \text{ N}$,
 $F_z = 8018 \text{ N}$, $F_a = 3629,7 \text{ N}$
- 2.4.10 $S_{CD} = 24,55 \text{ N}$, $S_{EF} = 62,05 \text{ N}$
- 2.4.11 $a = \frac{g[Q - F_g + q(2x - l)]}{[F_g + Q + ql]}$
 $v^2 = \frac{2gl[Q - F_g]}{[F_g + Q + ql]}$
 $F_S = F_{S1} = 2(Q + qx) \cdot \frac{F_g + q(l - x)}{F_g + Q + ql}$
- 2.4.12 $a = g \cdot \frac{x}{l} \cdot \sin \alpha$, $v = \sqrt{g \cdot l \cdot \sin \alpha}$
- 2.4.13 a) $a_A = 1,095 \text{ m/s}^2$,
 $a_B = 0,981 \text{ m/s}^2$,
 b) $a_A = a_B = 0,667 \text{ m/s}^2$
- 2.4.14 $a = 0,366g$
- 2.4.15 $a_A = 7,9503 \text{ m/s}^2$,
 $a_B = 8,033 \text{ m/s}^2$,
 $S = 24,95 \text{ N}$
- 2.4.16 $a_A = 0,7664 \text{ m/s}^2$, $S = 137,95 \text{ N}$
- 2.4.17 $\omega_{\min} = 2,557 \text{ rad/s}$,
 $\omega_{\max} = 7,672 \text{ rad/s}$
- 2.4.18 $N_A = 3383 \text{ N}$, $N_B = 1617 \text{ N}$
- 2.4.19 $S_1 = 1,39 \text{ kN}$, $a = 0,5\sqrt{2}g$
- 2.4.20 $F_d = 273,9 \text{ kN}$, $F_v = 45,03 \text{ kN}$
- 2.4.21 $D_1 = 3,25 \text{ kN}$ ($40,5^\circ$),
 $D_2 = 2,20 \text{ kN}$ ($73,7^\circ$)
- 2.4.22 $T = 2\pi \left(1 + \frac{h}{\sqrt{R_0}} \right) \sqrt{\frac{R_0 + h}{g_0}}$
- 2.4.23 $h = 0,6076 \text{ m}$
- 2.4.24 $s = 194,1 \text{ m}$
- 2.4.25 $a_1 \approx 0,287 \text{ m/s}^2$, $t_1 \approx 12 \text{ s}$,
 $v_1 \approx 5,46 \text{ m/s}$, $t_2 \approx 137 \text{ s}$,
 $s_2 \approx 373 \text{ m}$
- 2.4.26 $a_A = 1,741 \text{ m/s}^2$,
 $v_A = 1,18 \text{ m/s}$,
 $a_B = 3,481 \text{ m/s}^2$, $v_B = 2,36 \text{ m/s}$
- 2.4.27 $\mu \geq 0,7$
- 2.4.28 Najmanje 33 ophoda/min.
- 2.4.29 $s = 64,3 \text{ m}$
- 2.4.30 $N = 41,0 \text{ N}$, ne treba faktor trenja

Rad i snaga sile, energija čestice

- 2.5.1 $P = 220,725 \text{ kW}$
- 2.5.2 $W = 8,72 \text{ J}$
- 2.5.3 $v = 2,83 \text{ m/s}$, $x_{\max} = 5,33 \text{ m}$