

## GOC CIA 7

$$mg = 6\pi \eta r v_1$$

$$m = d \cdot V$$

$$V = \frac{4}{3} \pi r^3$$

$$d \cdot \frac{4}{3} \pi r^3 g = 6\pi r \eta v_1$$

$$r = \sqrt{\frac{6\eta v_1}{\frac{4}{3} g d}} = \sqrt{\frac{6 \cdot 1,7 \cdot 10^{-4} \frac{\text{N} \cdot \text{s}}{\text{m}^2} \cdot 6,47 \cdot 10^{-6} \frac{\text{m}}{\text{s}}}{\frac{4}{3} \cdot 9,8 \frac{\text{m}}{\text{s}^2} \cdot 1029 \frac{\text{kg}}{\text{m}^3}}}$$

$$= 7 \cdot 10^{-7} \text{ m}$$

$$F_{el} = P + F_{AT}$$

$$qE = 6\pi r \eta (v_1 + v_2)$$

$$q = \frac{6\pi r \eta (v_1 + v_2)}{E} = 3,27 \cdot 10^{-19} \text{ C}$$

$$n = \frac{q}{q_e} = \frac{3,27 \cdot 10^{-19} \text{ e}}{1,6 \cdot 10^{-19} \text{ e}} = 2$$

$$v_{CADUTA} = 6,47 \cdot 10^{-6} \frac{\text{m}}{\text{s}}$$

$$v_{SALITA} = 8,13 \cdot 10^{-6} \frac{\text{m}}{\text{s}}$$

$$r = ? \quad q = ?$$

$$d_{OLIO} = 1029 \frac{\text{kg}}{\text{m}^3} \quad E = 10000 \frac{\text{N}}{\text{C}}$$

$$\eta = 1,7 \cdot 10^{-4} \frac{\text{N} \cdot \text{s}}{\text{m}^2}$$