

Daher man $\alpha = 7,125$ μ min^{-1}

$$A = \frac{1}{7,125^2} - \frac{1}{4,17,32}$$

$$= 0,0196984 - 0,0144342$$

$$= 0,0052642$$

$$B = \frac{36}{4 \cdot 14,66074} = \frac{9}{14,66074} = 0,613884$$

$$C = \frac{36}{2} + \frac{14,66074^2}{4 \cdot 17,32} - 10$$

$$= 8 + \frac{14,66074^2}{69,28} = 8 + 2,46436$$

$$= 10,46436 \text{ m/s}$$

$$C_1 = \frac{0,613884 - \sqrt{0,613884^2 - 10,46436 \cdot 0,0052642}}{0,0052642}$$

$$= \frac{0,613884 - \sqrt{0,376854 - 0,0550865}}{0,0052642}$$

$$= \frac{0,613884 - \sqrt{0,3217675}}{0,0052642}$$

$$= \frac{0,046638}{0,0052642} = 8,85947 \text{ s}^{-1}$$

$$n_1 = \left(\frac{8,85947}{7,125} \right)^2 = 1,54613 \text{ s}^{-1}$$

$$a = \frac{14,66074^2 - 8,85947^2}{4 \cdot 17,32}$$

$$= \frac{170,731 - 78,4901}{69,28}$$

$$= \frac{92,2409}{69,28} = 1,33142 \text{ s}^{-1}$$

$$n_2 = \left(1 - \frac{8,85947}{14,66074} \right) 18$$

$$= (1 - 0,604298) 18$$

$$= 0,395702 \cdot 18 = 7,122636 \text{ s}^{-1}$$

Das Drehmoment M ist $M = \frac{1}{2} \rho \omega^2 r^4$ m^{-2} s^{-2} m^4 $\text{m}^{-3} = \frac{1}{2} \rho \omega^2 r^4$

$$T = \left[\frac{(m - a)(c - v)v}{2g} + (m - av)h \right] y$$

um y ist y die m^{-2} s^{-2} m^4 $\text{m}^{-3} = \frac{1}{2} \rho \omega^2 r^4$ m^{-2} s^{-2} m^4 $\text{m}^{-3} = \frac{1}{2} \rho \omega^2 r^4$