Hub antara t dan or por Newtonian fluid: table 3 a.b. Tro = Tor = - M [r fr ()+ + f gur] Tro = - 1 (r = 1 () r dr (Ve) = 2 520 R2 (- 2) (K2) Tr0 = - M. 2 20 R2 (Tr2) (1- K2) ZTRL TropR. 12 langan gaya 9343 Contoh 3.5-2 Shape of the Surface of a Rotating Fluid , kec putaran = 52 asumsiz: . steady state - Newtonian fluid P. M. tetap dicari: = Vr=V2=0 Vo=f(r) Vo=f(r) P= f(r, 2) - P=tekanan = f(r, 2) ts = for) centrifugal force gravita dvo Dari pers kontinguites: 20=0 arah r -> Purs. gerak: $0 \frac{\sqrt{6^2}}{V} = \frac{\partial P}{\partial V}$ arch & -> 0 = Mor (+ or (r ve)) arah = -> 0 = - 3P - Pgz R; VB=RR

$$\frac{d}{dr}\left(\frac{1}{r}\frac{d}{dr}(rV_0)\right) = 0 \rightarrow \frac{d}{dr}(rV_0) = e_1 r$$

$$V_0 = c_1 r + \frac{c_2}{r}$$

$$Shg. V_0 = 0 : c_2 = 0$$

$$Shg. V_0 = c_1 r$$

$$\frac{\partial f}{\partial r} = \rho \frac{V_0^2}{r} = \rho \mathcal{Q}^2 r$$

$$\frac{\partial f}{\partial r} = \rho \frac{V_0^2}{r} = \rho \mathcal{Q}^2 r$$

$$\frac{\partial f}{\partial r} = -\rho g$$

$$dP = \frac{\partial f}{\partial r} dr + \frac{\partial f}{\partial r} dr$$

$$\int_0^r dr = \int_0^r \rho \mathcal{Q}^2 r dr - \int_0^r \rho g dr$$

$$\int_0^r dr = \int_0^r \rho \mathcal{Q}^2 r dr - \int_0^r \rho g dr$$

$$\int_0^r dr = \int_0^r \rho \mathcal{Q}^2 r dr - \int_0^r \rho g dr$$

$$\int_0^r dr = \int_0^r \rho \mathcal{Q}^2 r dr - \int_0^r \rho g dr$$

$$\int_0^r dr = \int_0^r \rho \mathcal{Q}^2 r^2 + \rho g \partial_0 - \rho g \partial_0 -$$

Contoh 3.5.3 Torque relationships of Velocity Distribution in the plate & Cone viscometer

cone diputar diputar

80 22 Shg B1 ≈ 90°