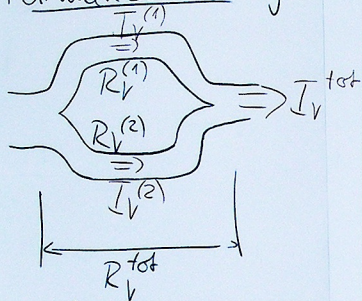


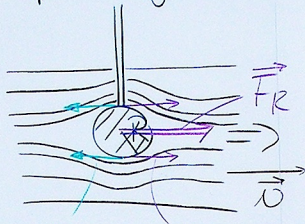
Parallelschaltung



$$\Rightarrow \frac{1}{R_V^{tot}} = \frac{1}{R_V^{(1)}} + \frac{1}{R_V^{(2)}}$$

Das Stokesche Reibungsgesetz

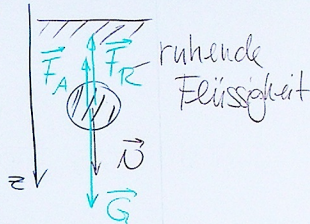
Bsp.: Kugel in Strömung



$$\zeta_{KF} = -\zeta_{FK} \quad (3. N.P.)$$

$$\boxed{F_R = \underbrace{6\pi R \eta v}_{\text{Kugel}}}$$

Anwendung: Sedimentation



$$\underline{2. N.P.}: m a = m g - m_{Fe} g - 6\pi R \eta v$$

$$\underline{Exp.}: v = \text{konst} \Rightarrow a = 0$$

$$v_s = \frac{m g - m_{Fe} g}{6\pi R \eta}$$