

## FILTRACIJA

$$C_k = \left[ \frac{1}{c} - \frac{1}{\rho_s} - \frac{f-1}{\rho} \right]^{-1}$$

$$V_c = \frac{Q \cdot T}{c_k \cdot n} = \frac{Q \cdot T \cdot t_c}{3600 \cdot c_k}$$

$$F_c^2 - \frac{V_c \cdot \eta \cdot R_m}{\Delta p \cdot t_c} \cdot F_c - \alpha \cdot \eta \cdot c_k \cdot \frac{V_c^2}{2 \cdot \Delta p \cdot t_c} = 0$$

$$F_{c(dej)} = 3 \cdot F_c$$

$$D = \sqrt{\frac{F_{c(dej)}}{2 \cdot \pi}}$$

$$Q = \frac{dV}{dt} = \frac{F \cdot \Delta p}{\alpha \cdot \eta \cdot c_k \cdot \left( \frac{V}{F} \right) + \eta \cdot R_m}$$

$$\frac{dt}{dV} = \alpha \cdot \eta \cdot c_k \cdot \frac{V}{F^2 \cdot \Delta p} + \frac{\eta \cdot R_m}{F \cdot \Delta p} = aV + b$$

$$QS = \frac{QT}{c}$$

$$Q = \frac{F \cdot \Delta p}{\eta(R_m + R_k)}$$

$$R_k = \alpha \cdot w$$

$$wF = cV$$

## SPECIFIČNA POVRŠINA

po Blaineu

$$S_m = \frac{k}{\rho} \cdot \sqrt{\frac{t}{\eta}}$$

RRS diagram

$$S_v = \frac{6,39 \cdot f}{d'} \cdot e^{\frac{1,795}{n^2}}$$

$$S_m = \frac{S_v}{\rho}$$

$$\Sigma \Delta R = 100 \cdot \exp\left(-\frac{x}{d'}\right)^n$$

## MLETJE/SEJALNA ANALIZA

parametra  $n$  in  $d'$  iz RRS porazdelitve

$$n = \frac{\ln \left( \frac{\ln \frac{100}{\sum \Delta R_2}}{\ln \frac{100}{\sum \Delta R_1}} \right)}{\ln \frac{x_2}{x_1}}$$

$$n \cdot \ln x - n \cdot \ln d' = \ln \left( \ln \frac{100}{\sum \Delta R} \right) \Rightarrow \ln d' = \frac{n \cdot \ln x - \ln \left( \ln \frac{100}{\sum \Delta R} \right)}{n}$$

parametra GGS porazdelitve

$$p = \frac{\log \left( \frac{Q_r(x_2)}{Q_r(x_1)} \right)}{\log \frac{x_2}{x_1}}$$

$$d_{\max} = \frac{x_i}{\left( \frac{Q(x_i)}{100} \right)^{\frac{1}{p}}}$$

zgoščevalnik

$$c_o H_o = c_g H_g$$

$$G_{KT} = c_o H_o / t_c \text{ - spec.obr.}$$

$$Q_g = Q_v \cdot c_o / c_g$$

$$S = c_g Q_g / G_{KT}$$

$$v_p = Q_p / S$$