

$$K = \frac{y}{x}$$

$$\beta = \frac{K(A)}{K(B)}$$

$$y_i = \frac{F}{S} (x_{i-1} - x_N)$$

$$y_i = K x_i$$

$$E = \frac{KS}{F}$$

$$\left[\frac{E^{N+1} - 1}{E - 1} \right] x_N = x_F$$

$$\log_{10} \left[\frac{K_i}{K} - 1 \right] = \text{pH} - \text{pK}_A$$

$$\frac{(\text{HETS})_2}{(\text{HETS})_1} = \left(\frac{D_2}{D_1} \right)^{0.38}$$

$$\frac{(\text{SPM})_2}{(\text{SPM})_1} = \left(\frac{D_2}{D_1} \right)^{-0.14}$$

$$v = \frac{2a^2 (\rho - \rho_0) \omega^2 R}{9\mu}$$

$$Re = \frac{2av\rho_0}{\mu}$$

$$v_g = \frac{2a^2 (\rho - \rho_0) g}{9\mu}$$

$$G = \frac{\omega^2 R}{g}$$

$$g \ln(R/R_0) = v_g \omega^2 t$$

$$s = \frac{2a^2 (\rho - \rho_0)}{9\mu}$$

$$Q = v_g \Sigma$$

$$\Sigma = \frac{\pi \omega^2 L (R_0^2 - R_1^2)}{g \ln(R_0/R_1)}$$

$$\Sigma = \frac{2n\pi \omega^2 (R_0^3 - R_1^3)}{3g \tan(\theta)}$$

$$R = \frac{L}{D}$$

$$L = RD$$

$$V = L + D = D(R + 1)$$

$$L' = qF + L$$

$$V' = F(q - 1) + V$$

$$y = \frac{L'}{V'}x - \frac{B}{V'}x_B$$

$$y = \frac{L}{V}x + \frac{D}{V}x_D$$

$$y = \left(\frac{q}{q-1} \right) x - \left(\frac{z_F}{q-1} \right)$$