

$$Dp_{critical} := 1 \mu m \quad T_{Icritical} := 1 s$$

$$T_{Icritical} = \frac{\rho_s \cdot Dp_{critical}^2}{18 \cdot \mu} \quad 1 - \exp \left(-2 \cdot \left(\frac{G \cdot T_{Icritical} \cdot Q \cdot (n+1)}{D_C^3} \right)^{\left(\frac{0.5}{n+1} \right)} \right) = 0.99995$$

$$\begin{bmatrix} Dp_{critical} \\ T_{Icritical} \end{bmatrix} := \mathbf{find} (Dp_{critical}, T_{Icritical})$$

$$Dp_{critical} = 411 \mu m$$