$$\frac{18.5 \text{ gal}}{\text{fr}^2 - 2ay} \cdot \left(\frac{1 \text{ st}}{0.3048 \text{ m}} \right)^2 \cdot \left(\frac{1 \text{ day}}{86400 \text{ sel}} \right) \left(\frac{0.00378541 \text{ m}^3}{1 \text{ gal}} \right) = 8.72451 \text{ e-le m/s}$$

$$J = -\frac{k}{M} \frac{\partial \rho}{\partial t} \qquad k = \frac{J_M \Delta t}{2}$$

$$K = \frac{J}{\Delta p} = \frac{8.72451e-1e}{5515808} \sim 1.5817e-12 \frac{m}{Pa-5}$$

$$k = \frac{T_{M} \Delta Z}{\Delta D} = K_{M} D Z \left(\frac{m}{\rho_{a-s}} \cdot \rho_{a-s} \cdot m \right)$$