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A. Theoretical Flux Equation

$$J = -D \frac{dc}{dx}$$

B. Fick's Second Law of Diffusion

$$\frac{\partial^2 c}{\partial x^2} = \frac{1}{D} \frac{\partial c}{\partial t}$$

C. Laplace Equation

$$\nabla^2 \phi = 0$$

D. Continuity Equation

$$\frac{\partial c}{\partial t} + \nabla \cdot \mathbf{J} = R$$

