

$$I = \frac{N}{S \cdot U + D}$$

$$I = \frac{N}{D \left(\frac{S \cdot U}{D} + 1 \right)} = \frac{N}{D} \left(\frac{S \cdot U}{D} + 1 \right)^{-1}$$

differentiate the equation by S

$$\frac{dI}{dS} = -\frac{N}{D} \cdot \left(\frac{S \cdot U}{D} + 1 \right) \cdot \frac{U}{D}$$

$$\frac{dI}{dS} = -\frac{N \cdot U}{D^2} \left(\frac{S \cdot U}{D} + 1 \right)$$