



$$1 - \hat{\alpha} = e^{-ks\Delta \hat{x}} = \left(e^{-ks\Delta x} \right)^{\Delta \hat{x} / \Delta x} = (1 - \alpha)^{\Delta \hat{x} / \Delta x}$$

$$\hat{\alpha} = 1 - (1 - \alpha)^{\Delta \hat{x} / \Delta x}$$