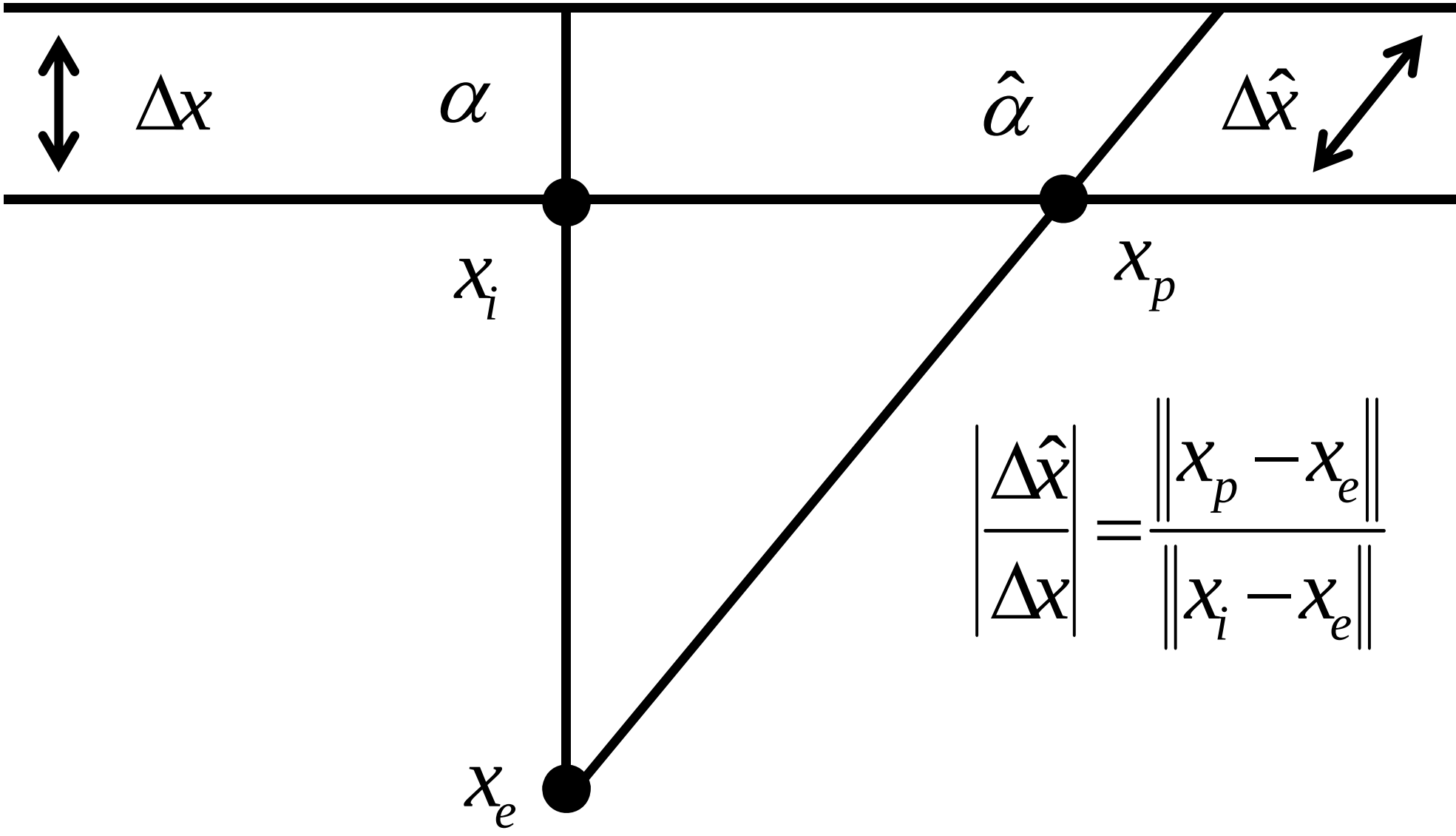

$$\left|\frac{\Delta\hat{x}}{\Delta x}\right| = \frac{\left\|x_p - x_e\right\|}{\left\|x_i - x_e\right\|}$$

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

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