

Transient current technique

$$I_{e,h}(t) = e_0 \cdot N_{e,h} \cdot \exp(-t/\tau_{eff,e,h}) \cdot \frac{v_{e,h}(t)}{d} \approx \frac{e_0 \cdot N_{e,h} \cdot \mu_{e,h}}{d} \cdot \exp(-t/\tau_{eff,e,h}) \cdot E(t)$$

