FOTOCORRENTE

$$\mathbf{J}(\mathbf{r}, t) = \frac{e\hbar}{2im^*(\mathbf{r})} \left[\Psi(\mathbf{r}, t)\vec{\boldsymbol{\nabla}}\Psi^*(\mathbf{r}, t) - \Psi^*(\mathbf{r}, t)\vec{\boldsymbol{\nabla}}\Psi(\mathbf{r}, t) \right]$$

$$I = \frac{1}{T} \int_0^T dt\, \left[J(z_2, t) - J(z_1, t) \right]$$