$$\hat{g} = m^3 h$$

$$I_T = \hat{g}\, \rho\, z^2\, \frac{EF^2}{RT}\, \frac{[Ca^{2+}]_i - [Ca^{2+}]_o \exp(-zFE/RT)}{1 - \exp(-zFE/RT)}$$

if $-\frac{zFE}{RT} \gg 1$ $\Rightarrow$ $I_T = \hat{g}\, \rho\, z^2\, \frac{EF^2}{RT} \cdot \frac{-[Ca^{2+}]_o}{0-1}$

$$I_T = \hat{g}\, \rho\, z^2\, \frac{EF^2}{RT} [Ca^{2+}]_o$$

if $E=0$ $\Rightarrow$ $I_T \simeq \hat{g}\, \rho\, z^2\, \frac{EF^2}{RT}\, \frac{[Ca^{2+}]_i - [Ca^{2+}]_o \left(1 - \frac{zFE}{RT}\right)}{1 - \left(1 - \frac{zFE}{RT}\right)} \simeq$

$$\simeq \hat{g}\, \rho\, z^2\, \frac{EF^2}{RT}\, \frac{[Ca^{2+}]_i - [Ca^{2+}]_o}{\frac{zFE}{RT}}$$

$$I_T = \hat{g}\, \rho\, z F \left([Ca^{2+}]_i - [Ca^{2+}]_o\right)$$