$$\mathbf{T}_{dq0}(\omega) = \mathbf{T}_{dc}^{\lambda \kappa}(t) - 4\mathbf{V}_{o}^{\kappa}(t) - 2(R + 2R_{f})\mathbf{I}_{c}^{\lambda q_{0}} = \mathbf{T}_{dq0}(\omega)$$

$$\mathbf{T}_{dq0}(\omega) = \mathbf{T}_{dq0}(\omega)$$

$$2C_{eq}\frac{d\tilde{v}_{dc}^{\Delta k}}{dt}(t) = -\frac{2S_{0}}{3V_{dc0}}\tilde{e}_{c}^{k*}(t) + \tilde{i}_{c}^{k}(t)$$

$$2C_{eq}(\mathbf{\Omega} + s\mathbf{I})\tilde{\mathbf{V}}_{dc}^{dq0\Delta} = -\frac{2S_{0}}{3V_{dc0}}\tilde{\mathbf{E}}_{c}^{dq0*} + \tilde{\mathbf{I}}_{c}^{dq0}$$

 $2(L+2L_f)\frac{di_c^k}{dt}(t) = +2V_{dc0}\tilde{e}_c^{k*}(t)$ 

 $-\tilde{v}_{dc}^{\Delta k}(t) - 4\tilde{v}_{o}^{k}(t) - 2\left(R + 2R_{f}\right)\tilde{i}_{c}^{k}(t)$ 

 $+2V_{dc0}\tilde{e}_{cir}^{k*}(t)+2\tilde{v}_{dc}(t)$ 

 $2(L+2L_f)(\mathbf{\Omega}+s\mathbf{I})\tilde{\mathbf{I}}_c^{dq0}=2V_{dc0}\tilde{\mathbf{E}}_c^{dq0*}$ 

 $-\tilde{\mathbf{V}}_{d_{1}}^{dq0\Delta}-4\tilde{\mathbf{V}}_{o}^{dq0}-2\left(R+2R_{f}\right)\tilde{\mathbf{I}}_{c}^{dq0}$ 

$$2C_{eq} \frac{d\tilde{v}_{dc}^{\Sigma k}}{dt}(t) = 2\tilde{i}_{cir}^{k}(t) - \frac{2S_{0}}{3V_{dc0}}\tilde{e}_{cir}^{k*}(t)$$

$$T_{dq0}(2\omega)$$

$$4L \frac{d\tilde{i}_{cir}^{k}}{dt}(t) = -4R\tilde{i}_{cir}^{k}(t) - \tilde{v}_{dc}^{\Sigma k}(t)$$

$$+2V_{dc0}\tilde{e}^{k*}(t) + 2\tilde{v}_{dc}(t)$$

$$2C_{eq} (2\Omega + s\mathbf{I}) \tilde{\mathbf{V}}_{dc}^{2dq0\Sigma} = 2\tilde{\mathbf{I}}_{cir}^{2dq0}$$

$$-\frac{2S_{0}}{3V_{dc0}}\tilde{\mathbf{E}}_{cir}^{2dq0*}$$

$$4L (2\Omega + s\mathbf{I}) \tilde{\mathbf{I}}_{cir}^{2dq0} = -4R\tilde{\mathbf{I}}_{cir}^{2dq0}$$

$$-\tilde{\mathbf{V}}_{dc}^{2dq0\Sigma} + 2V_{dc0}\tilde{\mathbf{E}}_{cir}^{2dq0*} + 2\tilde{\mathbf{V}}_{dc}^{2dq0*}$$