



Swing Equation:

$$2\frac{\mathbf{H}_i}{\omega_R}\ddot{\delta} + \frac{\mathbf{D}_i}{\omega_R}\dot{\delta} = \mathbf{F}_i - \sum_{\substack{j=1 \\ i \neq j}}^n \mathbf{K}_{ij} \sin(\delta_i - \delta_j - \gamma_{ij})$$