



~~NRPF~~ NRPF $(P_{1j} - \gamma_{1j} l_{1j}) + (P_{2j} - \gamma_{2j} l_{2j}) = P_{Lj}$

NRPF $(Q_{1j} - \kappa_{1j} l_{1j}) + (Q_{2j} - \kappa_{2j} l_{2j}) = Q_{Lj}$

~~$V_{1j} = V_j +$~~

KVL₁ $V_j = V_1 - 2(\gamma_{1j} P_{1j} + \kappa_{1j} Q_{1j}) + (\gamma_{1j}^2 + \kappa_{1j}^2) l_{1j}$

KVL₂ $V_j = V_2 - 2(\gamma_{2j} P_{2j} + \kappa_{2j} Q_{2j}) + (\gamma_{2j}^2 + \kappa_{2j}^2) l_{2j}$

BCPF₁ $P_{1j}^2 + Q_{1j}^2 = V_1 l_{1j}$

BCPF₂ $P_{2j}^2 + Q_{2j}^2 = V_2 l_{2j}$

~~$P_{1j} = \alpha P_{2j}$~~

Power Sharing

$P_{2j} = \alpha P_{1j}$

~~$Q_{2j} = \alpha Q_{1j}$~~