

$a, b$	cost parameters
$\omega$	angular frequency
$\theta$	phase angle
$P$	mechanical power
$\underline{P}$	lower limit of mechanical power
$\overline{P}$	upper limit of mechanical power
$L$	power load
$\overline{P}_{ij}$	capacity of line connecting buses $i$ and $j$
$D$	load-damping constant
$t_{ij}$	tie-line stiffness coefficient