## Admittance Transformation (Smith Chart)

- impedance representation in Smith Chart



## Transformation $\quad z_{i n}=1+j 1 \rightarrow y_{i n}=\frac{1}{2}-j \frac{1}{2}$



## Alternative: re-interpretation

Instead of rotating the reflection coefficient about 180 degree, we keep the location fixed and rotate the entire Smith Chart by 180 degree.


## Re-interpretation leads to ZY-Smith Chart



> The Smith Chart in its original form is kept for impedance display,
> but a second Smith Chart is rotated by 180 degree for admittance display.

