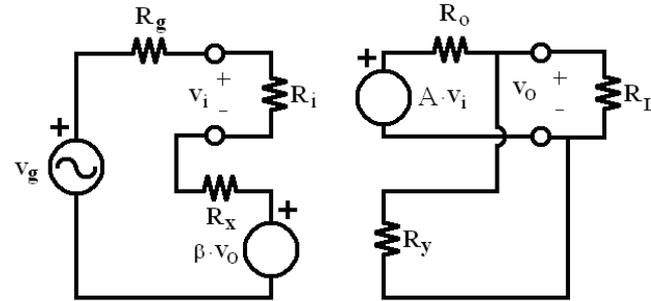
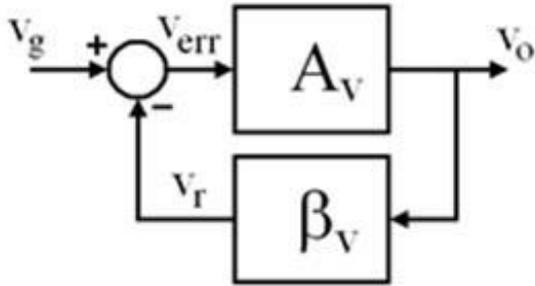


# V-V (Serie-Paralelo)



## CASO IDEAL

$$R_g = 0$$

$$R_L = \infty$$

$$R_x = 0$$

$$R_y = \infty$$

$$G = \frac{v_o}{v_g} = \frac{A_V}{1 + A_V \cdot \beta_V}$$

Ganancia

$$Z_i = R_i \cdot (1 + A_V \cdot \beta_V)$$

Impedancia de Entrada

$$Z_o = \frac{R_o}{1 + A_V \cdot \beta_V}$$

Impedancia de Salida

## CASO REAL

Parámetros privilegiados:  $h$



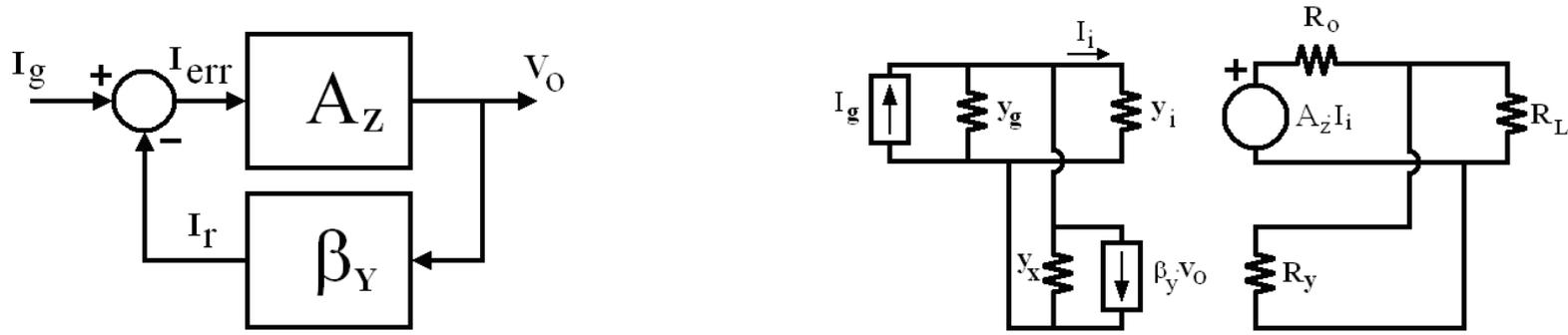
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## I-V (Paralelo-Paralelo)



### CASO IDEAL

$$y_g = 0$$

$$R_L = \infty$$

$$y_x = 0$$

$$R_Y = \infty$$

$$G_Z = \frac{A_Z}{1 + A_Z \cdot \beta_Y}$$

$$Z_i = \frac{1}{y_i \cdot (1 + A_Z \cdot \beta_Y)}$$

$$Z_o = \frac{R_o}{1 + A_Z \cdot \beta_Y}$$

### CASO REAL

*Parámetros privilegiados: Y*

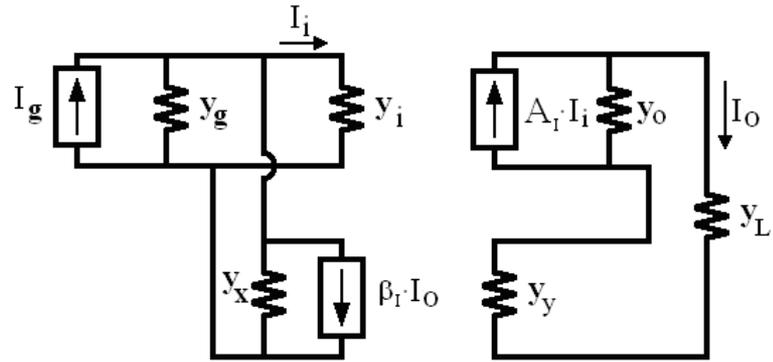
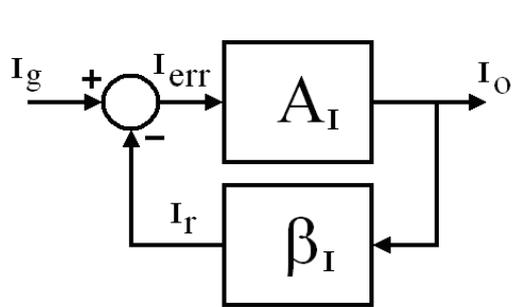
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## I-I (Paralelo-Serie)



### CASO IDEAL

$$y_g = 0$$

$$y_L = \infty$$

$$y_x = 0$$

$$y_Y = \infty$$

$$G_I = \frac{I_o}{I_g} = \frac{A_I}{1 + A_I \cdot \beta_I}$$

$$Z_i = \frac{1}{y_i \cdot (1 + A_I \cdot \beta_I)}$$

$$Z_o = \frac{1 + A_I \cdot \beta_I}{y_o}$$

### CASO REAL

*Parámetros privilegiados: g*

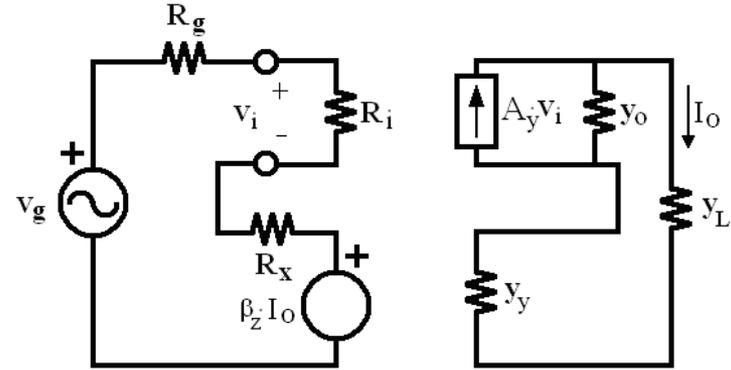
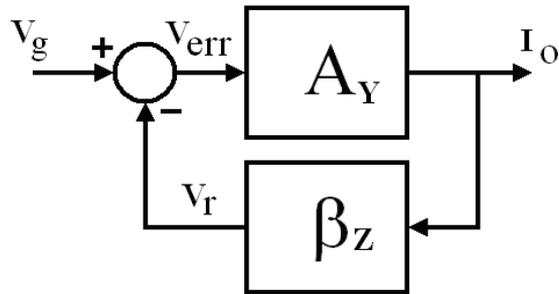
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## I-I (Serie-Serie)



### CASO IDEAL

$$R_g = 0$$

$$y_L = \infty$$

$$R_x = 0$$

$$y_y = \infty$$

$$G_I = \frac{I_o}{I_g} = \frac{A_I}{1 + A_I \cdot \beta_I}$$

$$Z_i = \frac{1}{y_i \cdot (1 + A_I \cdot \beta_I)}$$

$$Z_o = \frac{1 + A_I \cdot \beta_I}{y_o}$$

### CASO REAL

Parámetros privilegiados:  $Z$

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