TABLE 11.1

Inverting and Noninverting Amplifier Summary

$\beta = \dfrac{R_1}{R_1 + R_2}$ and $T = A\beta$	**INVERTING AMPLIFIER**	**NONINVERTING AMPLIFIER**
Voltage gain A_v	$-\dfrac{R_2}{R_1}\left(\dfrac{T}{1+T}\right) \cong -\dfrac{R_2}{R_1}$	$\left(1 + \dfrac{R_2}{R_1}\right)\left(\dfrac{T}{1+T}\right) \cong 1 + \dfrac{R_2}{R_1}$
Input resistance R_{in}	$R_1 + \left(R_{id} \left\| \dfrac{R_2}{1+A}\right.\right) \cong R_1$	$R_{id}(1+T)$
Output resistance R_{out}	$\dfrac{R_o}{1+T}$	$\dfrac{R_o}{1+T}$
Fractional gain error (FGE)	$\dfrac{1}{1+T}$	$\dfrac{1}{1+T}$