$C_{I}V_{o}(z)\left|1+\frac{1}{A}\right|=z^{-1}C_{I}V_{o}(z)\left|1+\frac{1}{A}\right|+z^{-1}C_{s}V_{i}(z)-\frac{C_{s}}{A}V_{o}(z)$

$$V_o(z) = [1 - \alpha] \cdot z^{-1} V_o(z) + g \cdot z^{-1} V_i(z)$$