- $1 + k\dfrac{A(s)H(z)}{1-A(s)H(z)} = \dfrac{1-A(s)H(z)+kA(s)H(z)}{1-A(s)H(z)} = \dfrac{1+(k-1)A(s)H(z)}{1-A(s)H(z)}$

- $\dfrac{\dfrac{kA(s)}{1-A(s)H(z)}}{1+k\dfrac{A(s)H(z)}{1-A(s)H(z)}} = \dfrac{\dfrac{kA(s)}{1-A(s)H(z)}}{\dfrac{1+(k-1)A(s)H(z)}{1-A(s)H(z)}} = \dfrac{kA(s)}{1+(k-1)A(s)H(z)}$

$$\Rightarrow a_z = \frac{1-A(s)H(z)}{1+(k-1)A(s)H(z)}\,d + \frac{kA(s)}{1+(k-1)A(s)H(z)}\,a_{z,ref}$$

P

$$= P^{-1}\left[1-A(s)H(z)\right]d + P^{-1}A(s)a_{z,ref}$$

$$\boxed{a_z \cdot P = \left[1-A(s)H(z)\right]d + A(s)\,a_{z,ref}}$$