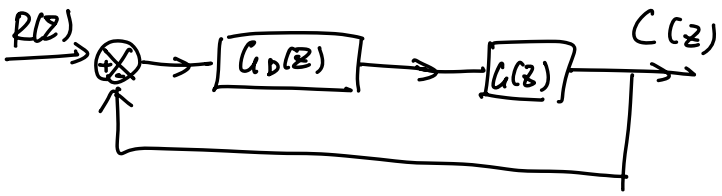
Example 3-6

Q: 求 $\frac{C(z)}{R(z)}$

Solution



let $G = G_D(z)G(z)$

$$G = \frac{C(z)}{R(z) - C(z)}$$

$$GR(z) - GC(z) = C(z)$$

$$GR(z) = (1+G)C(z)$$

$$\frac{C(z)}{R(z)} = \frac{G}{1+G} = \frac{G_D(z)G(z)}{1+G_D(z)G(z)}$$

$r[k] = 1$