

Example 9.14 Transfer function with a zero in the right half-plane

Consider the transfer functions

$$G(s) = \frac{s + 1}{(s + 0.1)(s + 10)}, \quad G_{\text{rhpp}}(s) = \frac{s + 1}{(s - 0.1)(s + 10)},$$

and

$$G_{\text{rhpz}}(s) = \frac{-s + 1}{(s + 0.1)(s + 10)}.$$