

Linear Systems and Black Boxes

Homework #1 (2020-2021), Questions

Q1: Transfer function of a more complex composite system

Consider the following composite system, with linear filters F , G , H , and K , input $s(t)$ and output $r(t)$. What is the transfer function that relates $\tilde{r}(\omega)$ to $\tilde{s}(\omega)$, in terms of the transfer functions of the component filters?

