

Tutorial Bode Plot

Question 1

Construct the asymptotic Bode plots for the frequency response function

$$GH(j\omega) = \frac{1 + j\omega/2 - (\omega/2)^2}{j\omega(1 + j\omega/0.5)(1 + j\omega/4)}$$

Question 2

Construct Bode plots for the frequency response function

$$GH(j\omega) = \frac{2}{j\omega(1 + j\omega/2)(1 + j\omega/5)}$$

Question 3

EXAMPLE 8-1 Draw the Bode diagram for the following transfer function:

$$G(j\omega) = \frac{10(j\omega + 3)}{(j\omega)(j\omega + 2)[(j\omega)^2 + j\omega + 2]}$$