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Sixth term EC233: Electronic Circuits I

Year: 2004/2005

Sheet:5

Draw the amplitude and phase curves, Bode plots, as a function of frequency for the following loop transfer functions:

1.
$$G(s)H(s) = \frac{100}{s^2}$$

2.
$$G(s)H(s) = \frac{s}{s+10}$$

3.
$$G(s)H(s) = \frac{10(s+10)}{s+1}$$

4.
$$G(s)H(s) = \frac{0.1s+1}{s+1}$$

5.
$$G(s)H(s) = \frac{10s}{0.1s+1}$$

6.
$$G(s)H(s) = \frac{s+1}{s(0.1s+1)}$$

$$7. G(s)H(s) = \frac{2}{s}$$

8.
$$G(s)H(s) = \frac{1}{s(s+8)}$$

9.
$$G(s)H(s) = \frac{1}{(s+5)(s+10)}$$