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Chapter 6, Problem 2P
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Step-by-step solution

Step 1 of 2

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

Magnitude = $|G(j\omega)| = \frac{1}{\sqrt{\omega^2+100}}$

Phase = $\angle G(j\omega) = -\tan^{-1}\left(\frac{\omega}{10}\right)$

s.no	ω (rad/s)	Magnitude	Phase
1	1	0.0995	-5.7°
2	2	0.0980	-11.3°
3	5	0.0894	-26.6°
4	10	0.07071	-45°
5	20	0.0447	-63.4°
6	50	3.846×10^{-2}	-78.7°
7	100	9.95×10^{-3}	-84.3°

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Step 2 of 2

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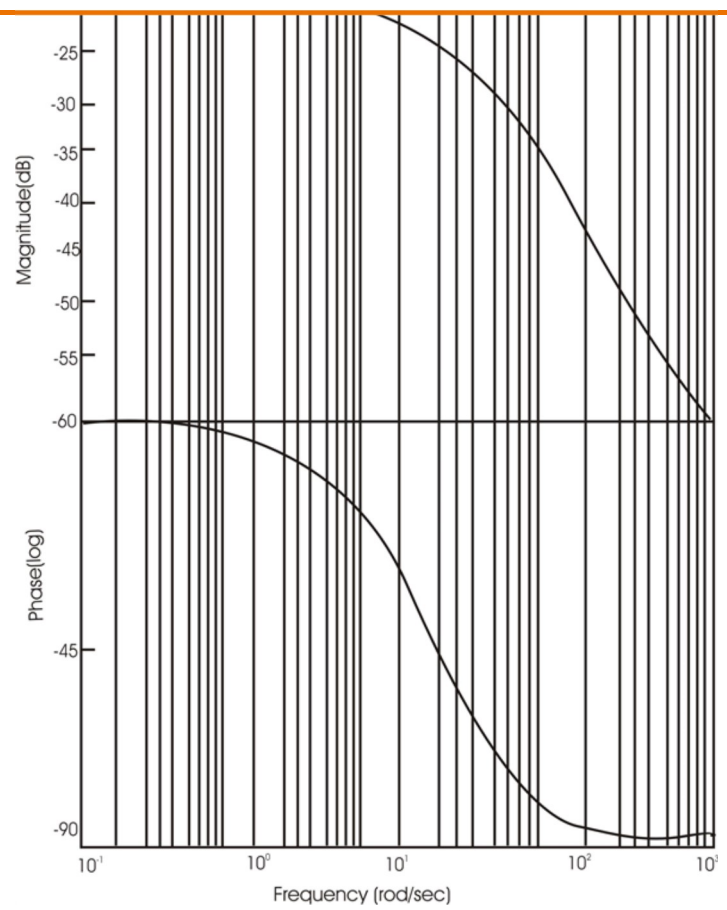
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