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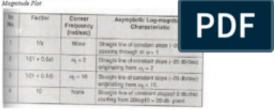
Module-27 Bode Diagrams Contd.,

ure No-37 and 38 of Control Systems Engineering by Prof. M Gopal

1. Slortch the Bode plot and determine the gain cross over and phase cross over frequencies

 $G(s) = \frac{10}{s(1+0.5s)(1+0.1s)}$

Solution: The corner frequencies are 2 and 10 Magnetude Plot:



Magnitude plot for individual factors is shown by dotted line. Resultant line is shown by a firm line as shown in the Egure
Photo-Flot.

 $\phi = -90^{\circ} - \tan^{-1} 0.5\omega - \tan^{-1} 0.1\omega$

Sr. Mo.	er(rad/sec)	# (degraes)
1	.0	- 90
3	0.1	- 93.43
3	1	-102.3
4	2	- 140.31
6	. 5	- 184.76
	10	-213.7
7	15	-228.7

From the plots, the gain cross over frequency is 4.7 rad/oct and phase cross over frequency is 4.5 rad/oct.

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