Burna Cardina Indrade

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Avaliação - Sistemas de Controle 1

1- 10 F, paque dem apre sex monon que 1/10.

a função de Transferência à zero.

airorisen agent a i sup anadomara de aprite a, 7 (2)

onalgimes on salie calog a color en levitre i 7 (e).

2) V.

2- morra 3

2. Let KI+KIB) - 48(+) KIB = F(+)

2- mana 3

* ys(t) (m152+ b5+ K1+ K12) - ye(t) K12 = F(t)

mansa (2)

* ya(t) (mas2+ K12) - ya(t) K12=0

Reesoverendo ...

(dys(t) 2 ms + dys(t) b + ys(t) (Ns+Ns2) - ys(t) Nsz=F(t)

dyz(t)2 ma + ya(t) K12 - yx(t) K12 = 0

Considerando:

dyset) = ys = Vys a dyse(t) = ys = Vys

$$3 - (a) = (\frac{X}{519}, \frac{516}{(512)(514)})$$

$$1 + \frac{X}{519}, \frac{516}{(512)(514)}$$

$$T(6) = \frac{K(6+6)}{5^3 + 355^2 + 5(K+62) + (6K + 72)}$$

strand it abilat *

5	Δ
SE	15
SA	- 13 K+G2 = 3K+286
s	6K+72

Portanto, a vistema vera estant para qualquere

$$N_p = 100$$

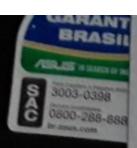
fino.

OS

(c)
$$e(\infty) = ex(6)(\infty) + ep(6)(\infty)$$

$$ex(6)(\infty) = \frac{1}{20} + e(\infty) = \frac{1}{20} + \frac{1}{20} = \frac{1}{20} + \frac{1}{20} = \frac$$

3-0398 0-288-888



4-a) om = 25° g ung graf illima paginal

al Observando o grafico, vormos que o instina é estando. Assa forma, o sestema a mada fechada dambem vorsa.

03=180-01=45°

b)
$$tg^{6} = \frac{m_2}{12-21} (7-2)=2$$

 $tg^{46} = \frac{2}{12-21} (7-2)=4$

(c)
$$X = \frac{1}{|6(s)|(s)|} = \frac{1}{|(s+2)|} = \frac{1}{|a|(s+2)|} = \frac{1}{|a+2|} = \frac{1}{|a+2$$

V = 2

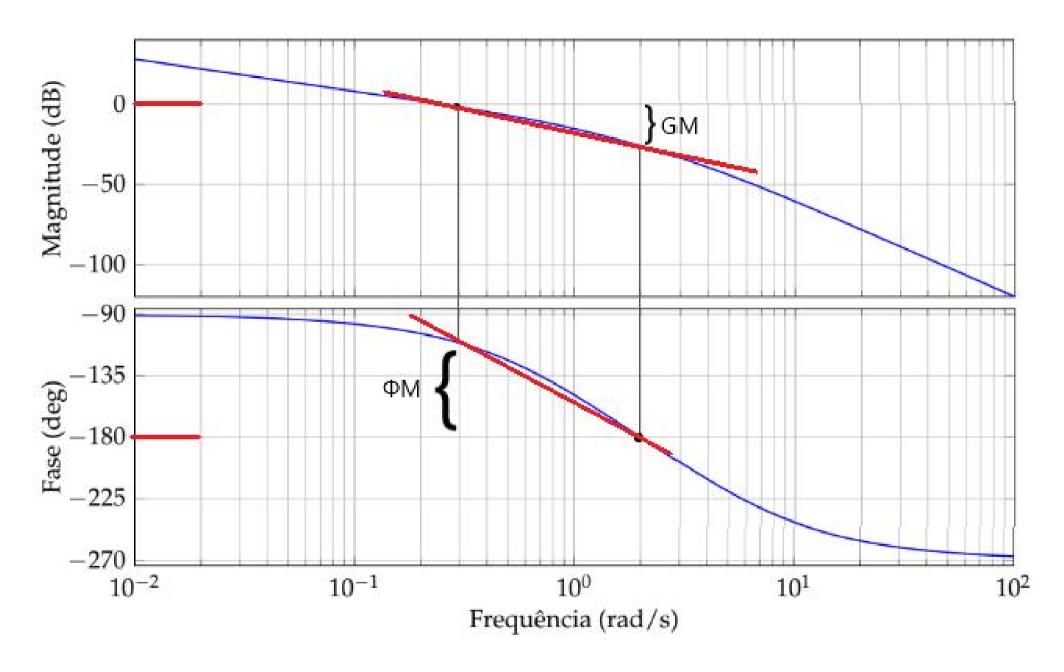


Figure 3: Diagrama de Bode.