



الجامعة المستنصرية
1307
الشيخ جعفر الصادق

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$$\dot{x} = -\frac{2xt}{1+t^2} \quad x \in \mathbb{R}$$

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$$\dot{x}_1 = -x_1^3 + \alpha(t)x_2$$

$$\dot{x}_2 = -\alpha(t)x_1 - x_2^3$$

$\alpha(t)$

:

$$\dot{x}_1 = -x_1 + (x_1^2 + x_2^2) \sin t$$

$$\dot{x}_2 = -x_2 - (x_1^2 + x_2^2) \cos t$$

$\varphi(y)$

$$G(s) = \frac{1}{s^3 + 2s^2 + 1}$$

