

Example 2.5: A satellite control system

Figure 2.4 shows the control system for a simple satellite model. The satellite, depicted in Figure 2.5(a), is simply a rotational unit inertia controlled by a pair of thrusters, which can provide either a positive constant torque U (positive firing) or a negative torque $-U$ (negative firing). The purpose of the control system is to maintain the satellite antenna at a zero angle by appropriately firing the thrusters. The mathematical model of the satellite is

$$\ddot{\theta} = u$$

where u is the torque provided by the thrusters and θ is the satellite angle.

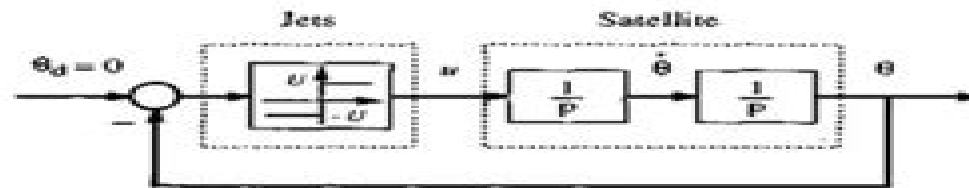


Figure 2.4 : Satellite control system

Let us examine on the phase plane the behavior of the control system when the thrusters are fired according to the control law

$$u(t) = \begin{cases} -U & \text{if } \theta > 0 \\ U & \text{if } \theta < 0 \end{cases} \quad (2.7)$$

which means that the thrusters push in the counterclockwise direction if θ is positive, and vice versa.

As the first step of the phase portrait generation, let us consider the phase portrait when the thrusters provide a positive torque U . The dynamics of the system is

$$\ddot{\theta} = U$$

which implies that $\dot{\theta} d\dot{\theta} = U d\theta$. Therefore, the phase trajectories are a family of parabolas defined by

$$\dot{\theta}^2 = 2U\theta + c_1$$

where c_1 is a constant. The corresponding phase portrait of the system is shown in Figure 2.5(b).

When the thrusters provide a negative torque $-U$, the phase trajectories are similarly found to be

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Anthony S. Fauci



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Applied Mechanics Reviews ,1986 *European Control Conference 1993* ,1993-06-28 Proceedings of the European Control Conference 1993 Groningen Netherlands June 28 July 1 1993 **Advances in Service and Industrial Robotics** Tadej Petrič,Aleš Ude,Leon Žlajpah,2023-05-26 This book presents the proceedings of the 32nd International Conference on Robotics in Alpe Adria Danube Region RAAD held in Bled Slovenia June 14 16 2023 It gathers contributions by researchers from several countries on all major areas of robotic research development and innovation as well as new applications and current trends The topics covered include novel designs and applications of robotic systems intelligent cooperating and service robots advanced robot control human robot interfaces robot vision systems mobile robots humanoid and walking robots bio inspired and swarm robotic systems aerial underwater and spatial robots robots for ambient assisted living medical robots and bionic prostheses cognitive robots cloud robotics ethical and social issues in robotics etc Given its scope the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments **ASME Technical Papers** , **Paper** ,1989 *Computer & Control Abstracts* ,1996
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