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Spacecraft Dynamics and Control | Coursera

Introduction to Spacecraft Dynamics

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Overview of Course Objectives

Determining Orbital Elements | Know

Kepler's Laws of motion, Frames of

Reference (ECI, ECEF, etc.) | Given

position and velocity, determine orbital

elements. | Given orbital elements and

time, determine position + velocity.

Satellite Orbital Maneuvers | Identify

Required Orbit.

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Spacecraft Dynamics and Control

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This addition to the spacecraft dynamics and control literature joins a fairly short list of texts that treat control of both

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orbit and attitude dynamics, including Bryson's Control of Spacecraft and Aircraft(1994), Kaplan's Modern Spacecraft Dynamics and Control(1976),and Wiesel'sSpace' ight Dynamics(1996).

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M. J. Sidi, Spacecraft Dynamics and Control, 1997, Cambridge. A “practical engineering approach” to both orbital and attitude dynamics and control. W. T. Thomson, Introduction to Space Dynamics, 1986, Dover. An excellent and affordable introduction to a variety of topics in spacecraft dynamics.

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