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attitude maneuvers,
orbit establishment

and orbit transfer,
plane rotation,

interplanetary transfer
and hyperbolic

passage, lunar
transfer, reorientation
with constant

momentum, attitude
determination, and
attitude adjustment
requirements.

**Modern Spacecraft
Dynamics and
Control (Dover**

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Books on ...

Modern Spacecraft

Dynamics and Control.

M. H. Kaplan. John

Wiley & Sons, London.

1976. 415 pp.

Illustrated. £15.85. -

Volume 81 Issue 796 -

D. G. Ewart

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Dynamics and

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Kaplan. John ...

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and phrases.

acceleration angle

angular momentum

applied approach

associated assumed

attitude attraction axes

axis becomes body

calculated center of

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mass Chapter circular
components Consider
constant coordinates
corresponding damping
defined ...

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H. Kaplan**

Modern Spacecraft
Dynamics and
Control(1976),and
Wiesel’sSpace’ ight
Dynamics(1996) As the
subtitle indicates, a
novel aspect of this
text is its emphasis on

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the “ practical

engineering” details of

the subject, and the

book succeeds in its

stated goal of

introducing “ the ba-

Dynamic Coupling and

Control Response

Effects on...

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Modern spacecraft

dynamics and control -

NASA/ADS. The basic

principles of physics

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underlying spacecraft dynamics and control are examined and aspects of fundamental spacecraft dynamics are investigated.

Orbital and attitude maneuvers are considered, taking into account momentum precession and adjustment for a rigid spacecraft, orbit establishment, orbit transfer and adjust, plane rotation, interplanetary transfer

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...
**Modern spacecraft
dynamics and
control - NASA/ADS**

Practical aspects of spacecraft dynamics and control are discussed, included sensor and actuator operation, digital implementation of controllers, and the

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Dynamics Numerous

illustrations

accompany the text,

helping the reader to

better understand the

material

**Spacecraft Dynamics
and Control: An
Introduction: de ...**

Spacecraft Dynamics

and Control covers

three core topic areas:

the description of the

motion and rates of

motion of rigid bodies

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(Kinematics),

developing the equations of motion that prediction the movement of rigid bodies taking into account mass, torque, and inertia (Kinetics), and finally non-linear controls to program specific orientations and achieve precise aiming goals in three-dimensional space (Control).

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Coursera

Introduction to
Spacecraft Dynamics

Overview of Course

Objectives Determining
Orbital Elements I

Know Kepler's Laws of
motion, Frames of
Reference (ECI, ECEF,

etc.) I Given position
and velocity,

determine orbital
elements. I Given

orbital elements and
time, determine

position + velocity.

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Satellite Orbital

Maneuvers I Identify

Required Orbit.

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Spacecraft Dynamics and Control

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Dynamics and Control.

This highly regarded book provides a bridge

that spans spacecraft

maneuvering and

control techniques with

associated physical

fundamentals.

Beginning with an

examination of the

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basic principles of physics underlying spacecraft dynamics and control, the text covers orbital and attitude maneuvers, orbit establishment and orbit transfer, plane rotation, interplanetary transfer and hyperbolic passage, lunar transfer, reorientation with constant momentum, ...

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Dynamics and

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Spacecraft detumbling allows us to introduce the angular rate control by means of magnetic torquers and to exploit some theoretical tools from the literature. These tools are partly used in the last section, which is committed to the modeling and control of a spacecraft actuated by reaction

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wheels and magnetic
torquers.

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**Spacecraft Dynamics
and Control |**

ScienceDirect

Spacecraft Dynamics
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Introduction presents
the fundamentals of
classical control in the
context of spacecraft
attitude control. This
approach is particularly
beneficial for the
training of students in
both of the subjects of

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classical control as well
as its application to
spacecraft attitude
control.

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**Spacecraft Dynamics
and Control: An
Introduction | Wiley**

Additional Physical

Format: Print version:

Kaplan, Marshall H.

Modern spacecraft
dynamics & control.

New York : Wiley,

©1976 (DLC)

76014859

(OCoLC)2317997

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Modern spacecraft dynamics & control (eBook, 1976 ...

This addition to the spacecraft dynamics and control literature joins a fairly short list of texts that treat control of both orbit and attitude dynamics, including Bryson's Control of Spacecraft and Aircraft(1994), Kaplan's Modern Spacecraft Dynamics and Control(1976),and

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Wiesel's 'Space'ight
Dynamics (1996).

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JOURNAL OF ROCKETS
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Vol. 34, No. 6,

November December

1997 ...

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,

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Dover. An excellent and affordable introduction to a variety of topics in spacecraft dynamics.

Spacecraft Dynamics and Control - Virginia Tech

Modern Spacecraft Dynamics and Control [Marshall H. Kaplan, 1976] (softcover) 978-0471457039. Marshall H. Kaplan List Price: \$155.95. Our Price: \$105.00. You

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Newtonian rather than

mathematical

approach to ...

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Kaplan ...

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, " A Survey of
Spacecraft Formation
Flying Guidance and
Control (Part II):
Control," Proceedings
of the American
Control Conference,
Evanston, IL, June
2004, pp. 2976-2984.

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