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Orbital Mechanics for Engineering Students. To my parents, Rondo and Geraldine, and my wife, Connie Dee. Orbital Mechanics for Engineering Students Howard D. Curtis Embry-RiddleAeronauticalUniversity DaytonaBeach,Florida AMSTERDAM • BOSTON • HEIDELBERG • LONDON • NEW YORK • OXFORD

ORBITAL MECHANICS FOR ENGINEERING STUDENTS

Description Written by Howard Curtis, Professor of Aerospace Engineering at Embry-Riddle University, Orbital Mechanics for Engineering Students is a crucial text for students of aerospace engineering. Now in its 3e, the book has been brought up-to-date with new topics, key terms, homework exercises, and fully worked examples.

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matrics. Mathematics, of course, is the language of engineering. Students must not forget that Sir Isaac Newton had to invent calculus so he could solve orbital mechanics problems in more than just a heuristic way. Newton (1642-1727) was an English physicist and mathematician whose 1687

Orbital Mechanics for Engineering Students

Orbital Mechanics for Engineering Students Description. Orbital Mechanics for Engineering Students, Fourth Edition, is a key text for students of aerospace... About the Author. Professor Curtis is former professor and department chair of Aerospace Engineering at Embry-Riddle...

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Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers.

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Orbital Mechanics for Engineering Students, Fourth Edition, is a key text for students of aerospace engineering. While this latest edition has been updated with new content and included sample problems, it also retains its teach-by-example approach that emphasizes analytical procedures, computer-implemented algorithms, and the most comprehensive support package available, including fully worked solutions, PPT lecture slides, and animations of selected topics.

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Introduction to Orbital Mechanics for Engineering Students ...

Orbital Mechanics for Engineering Students , H. Curtis, 2 rd ed ition, Elsevier, 2010. Other References: Fundamentals of Astrodynamics , Bate, Mueller, & White, Dover, 1971.

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