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Orbital Mechanics For Engineering Students

of teaching an introductory course in orbital mechanics for aerospace engineering students. Theseundergraduatestudentshadnopriorformalexperienceinthesubject, buthadcompletedcoursesinphysics,dynamicsandmathematicsthroughdifferential equations and applied linear algebra. That is the background I have presumed for readers of this book.

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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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This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book.

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matics. 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

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