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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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Orbital mechanics or astrodynamics is the application of ballistics and celestial mechanics to the practical problems concerning the motion of rockets and other spacecraft.The motion of these objects is usually calculated from Newton's laws of motion and law of universal gravitation.It is a core discipline within space-mission design and control.. Celestial mechanics treats more broadly the ...

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