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best a chapter in an undergraduate or graduate mechanics course. This book addresses that need, beginning with Kepler's laws of planetary motion followed by Newton's law of gravitation. Average and extremum values of dynamical variables are treated and the central force problem is formally discussed. The planetary problem in Cartesian and complex coordinates is tackled and examples of Keplerian motion in the solar system are also considered. The final part of the book is devoted to the motion of artificial Earth satellites and the modifications of their orbits by perturbing forces of various kinds.

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aching feet, a falling apple, and the orbit of Courses.

the Moon have in common? Each is caused by the gravitational force. Our feet are strained by supporting our weight--the force of Earth's gravity on us. An apple falls from a tree because of the same force acting a few meters above Earth's surface. And the Moon orbits Earth because gravity is able to supply the necessary centripetal force at a distance of hundreds of millions of meters. In fact, the same force causes planets to orbit the Sun, stars to orbit the center of the galaxy, and galaxies to cluster together. Gravity is another example of underlying simplicity in nature. It is the weakest of the four basic forces found in nature, and in some ways the least understood. It is a force that acts at a distance, without physical contact, and is expressed by a formula that is valid everywhere in the universe, for masses and distances that vary from the tiny to the immense. Chapter Outline: Introduction to Two-Dimensional Kinematics Kinematics in Two Dimensions Vector Addition and Subtraction: Graphical Methods Vector Addition and Subtraction: Analytical Methods Projectile Motion Inclined planes Circular Motion Gravitational force and fields The Open Courses Library introduces you to the best Open Source

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