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expose your students to the elegant world of physics in an enticing way physics from planet earth an introduction to mechanics provides a one semester calculus based introduction to classical mechanics for first year undergraduate students studying physics chemistry astronomy or engineering developed from classroom tested materials refined an

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this book develops a general approach that can be systematically refined to investigate the statics and dynamics of deformable solid bodies these methods are then employed to small bodies in the solar system with several space missions underway and more being planned interest in our immediate neighbourhood is growing in this spirit this book investigates various phenomena encountered in planetary science including disruptions during planetary fly bys equilibrium shapes and stability of small rubble bodies and spin driven shape changes the flexible procedure proposed here will help readers gain valuable insights into the mechanics of solar system bodies while at the same time complementing numerical investigations the technique itself is built upon the virial method successfully employed by chandrasekhar 1969 to study the equilibrium shapes of spinning fluid objects however here chandrasekhar s approach is modified in order to study more complex dynamical situations and include objects of different rheologies e g granular aggregates or rubble piles the book is largely self contained though some basic familiarity with continuum mechanics will be beneficial

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