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This book is great for learning the topic for the first time, and even better once you're looking for a good reference at a later time. It goes very deeply into the physics and philosophy of classical mechanics. Classical mechanics describes the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars and galaxies. Classical Mechanics [Herbert Goldstein, Charles P. Poole & John Safko] on Amazon.com. \*FREE\* shipping on qualifying offers. For 30 years, this classic text has been the acknowledged standard in classical mechanics courses. Classical Mechanics enables students to make connections between classical and modern physics an indispensable part of a ... Hamiltonian mechanics is a theory developed as a reformulation of classical mechanics and predicts the same outcomes as non-Hamiltonian classical mechanics.