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appendices) from Classical Dynamics of Particles and Systems, Fifth Edition, by Stephen T. Thornton and Jerry B. Marion. It is intended for use only by instructors using Classical Dynamics as a textbook, and it is not available to students in any form. A Student Solutions Manual

### Contents

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### Classical mechanics - Wikipedia

this pretty much wraps it up for classical mechanics. And, in a sense, it does. Given a collection of particles, acted upon by a collection of forces, you have to draw a nice diagram, with the particles as points and the forces as arrows. The forces are then added up and Newton's famous  $F = ma$  is employed to gure out where the par-

### Classical Dynamics - DAMTP

Matrices, vectors, and vector calculus --Newtonian mechanics-single particle --Oscillations --Nonlinear oscillations and chaos --Gravitation --Some methods in the calculus of variations --Hamilton's principle-Lagrangian and Hamiltonian dynamics --Central-force motion --Dynamics of a system of particles --Motion in a noninertial reference frame --Dynamics of rigid bodies --Coupled oscillations --Continuous systems ; waves --Special theory of relativity.

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