

# Central-Force Motion

## Chapter 8

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# 8.1 Introduction

- Consider motion of two particles affected by a force connecting the center of the two bodies.
- One of few problems that can be solved completely.
- Historically important e.g motion of planets, alpha-particle scattering on nuclei

## 8.2 Reduced Mass

- Description of a two-particle system
- Discussion restricted to frictionless (conservative) systems.