

# Classical Mechanics

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## Chapter 1

# Introduction



## Chapter 2

# Newtonian Mechanics

### 2.1 Newton's Laws of Motion

### 2.2 Work and Energy



## Chapter 3

# Lagrangian Mechanics

### 3.1 The Principle of Least Action

### 3.2 Lagrange's Equations





## Chapter 4

# Hamiltonian Mechanics

### 4.1 Hamilton's Equations

### 4.2 Liouville's Theorem