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canique Analytique,  
Paris, 1788. [2]

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Hamilton, Vol. II,  
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Chapter 7: Hamilton's  
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Formulations of  
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systematically

develops the

dynamics of classical

particles, with

chapters on basic

principles, rotating

coordinate systems,

lagrangian formalism,

small oscillations,

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dynamics of rigid

bodies, and

hamiltonian

formalism, including

a brief discussion of

the transition to

quantum mechanics.

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also considers

examples of the

limiting behavior of

many particles,

facilitating the

eventual transition to

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a continuous medium.

The second part deals with classical

continua, including

chapters on string

membranes, sound

waves, surface waves

on nonviscous fluids,

heat conduction,

viscous fluids, and

elastic media. Each of

these self-contained

chapters provides the

relevant physical

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background and develops the appropriate mathematical techniques, and problems of varying difficulty appear throughout the text.

This book constructs the mathematical apparatus of classical mechanics from the beginning, examining

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basic problems in dynamics like the theory of oscillations and the Hamiltonian formalism. The author emphasizes geometrical considerations and includes phase spaces and flows, vector fields, and Lie groups. Discussion includes qualitative methods of the theory of

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Mechanical systems  
and of asymptotic  
methods like  
averaging and  
adiabatic invariance.

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usually taught in  
physics courses  
include theory of  
space-charge limited  
currents, atmospheric  
drag, motion of  
meteoritic dust,

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variational principles  
in rocket motion,  
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solutions. It is

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intended primarily for instructors who are using Lagrangian and Hamiltonian

Mechanics in their course, but it may also be used, together with that text, by those who are studying mechanics on their own.

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published before, and  
I include only a few  
very recent essays.

This is the fifth

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Mechanics of a well-established textbook. It is intended to provide a thorough coverage of the fundamental principles and techniques of classical mechanics, an old subject that is at the base of all of physics, but in which there has also in recent years been

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rapid development.

The book is aimed at undergraduate

students of physics and applied

mathematics. It

emphasizes the basic principles, and aims

to progress rapidly to the point of being

able to handle

physically and

mathematically

interesting problems,

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without getting bogged down in excessive formalism. Lagrangian methods are introduced at a relatively early stage, to get students to appreciate their use in simple contexts. Later chapters use Lagrangian and Hamiltonian methods extensively, but in a way that aims to be

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accessible to

undergraduates,  
while including  
modern

developments at the  
appropriate level of  
detail. The subject has  
been developed  
considerably recently  
while retaining a truly  
central role for all  
students of physics  
and applied  
mathematics. This

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edition retains all the main features of the fourth edition, including the two chapters on geometry of dynamical systems and on order and chaos, and the new appendices on conics and on dynamical systems near a critical point. The material has been somewhat expanded,

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in particular to contrast continuous and discrete behaviours. A further appendix has been added on routes to chaos (period-doubling) and related discrete maps. The new edition has also been revised to give more emphasis to specific examples worked out in detail.

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Classical Mechanics is written for undergraduate students of physics or applied mathematics.

It assumes some basic prior knowledge of the fundamental concepts and reasonable familiarity with elementary differential and integral calculus.

Contents: Linear

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MotionEnergy and

Angular

MomentumCentral

Conservative

ForcesRotating

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