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**The goal of this book is to give a
comprehensive and systematic
exposition of the mechanics of**

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nonholonomic systems, including the kinematics and dynamics of nonholonomic systems with classical nonholonomic constraints, the theory of stability of nonholonomic systems, technical problems of the directional stability of rolling systems, and the general theory of electrical machines.

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The book contains a large number of examples and illustrations.

This is the fifth edition 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

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in which there has also in recent years been 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 accessible to

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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 edition retains all the main features of the

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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, in particular to contrast continuous and discrete behaviours. A

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

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

Contents: Linear Motion Energy and Angular Momentum Central Conservative Forces Rotating Frames Potential Theory The Two-Body

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**Problem Many-Body Systems Rigid
Bodies Lagrangian Mechanics Small
Oscillations and Normal
Modes Hamiltonian
Mechanics Dynamical Systems and
Their Geometry Order and Chaos in
Hamiltonian
Systems Appendices: Vectors Conics Phas**

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e Plane Analysis Near Critical

**Points Discrete Dynamical Systems —
Maps Readership: Undergraduates in
physics and applied mathematics.
Giving students a thorough grounding
in basic problems and their solutions,
Analytical Mechanics: Solutions to
Problems in Classical Physics presents a**

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short theoretical description of the principles and methods of analytical mechanics, followed by solved problems. The authors thoroughly discuss solutions to the problems by taking a comprehensive a Master introductory mechanics with ANALYTICAL MECHANICS! Direct

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and practical, this physics text is designed to help you grasp the challenging concepts of physics. Specific cases are included to help you master theoretical material. Numerous worked examples found throughout increase your problem-solving skills and prepare you to succeed on tests.

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Classical Dynamics

Classical Mechanics

Solved Problems in Classical Mechanics

A Contemporary Approach

Structure and Interpretation of

Classical Mechanics

Statistical physics has its origins in
attempts to describe the thermal

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properties of matter in terms of its constituent particles, and has played a fundamental role in the development of quantum mechanics. Based on lectures taught by Professor Kardar at MIT, this textbook introduces the central concepts and tools of statistical physics. It contains

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a chapter on probability and related issues such as the central limit theorem and information theory, and covers interacting particles, with an extensive description of the van der Waals equation and its derivation by mean field approximation. It also contains an integrated set of

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problems, with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password protected website at www.cambridge.org/9780521873420. A companion volume, Statistical Physics of Fields, discusses non-mean

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field aspects of scaling and critical phenomena, through the perspective of renormalization group.

Reviews and extends the theory of Lie groups, develops differential geometry, proposing compact definitions of torsion and of curvature, and adapts the usual

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notion of linear tangent application to the intrinsic point of view proposed for physics. Uses a unifying illustration: two simple theories are studied with some detail, the theory of heat conduction and the theory of linear elastic media. Shows that the resulting equations derived in this

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manner differ quantitatively and qualitatively from those usually presented.

This textbook offers a clear and comprehensive introduction to methods and applications in quantum mechanics, one of the core components of undergraduate

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physics courses. It follows on naturally from the previous volumes in this series, thus developing the understanding of quantized states further on. The first part of the book introduces the quantum theory of angular momentum and approximation methods. More

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complex themes are covered in the second part of the book, which describes multiple particle systems and scattering theory. Ideally suited to undergraduate students with some grounding in the basics of quantum mechanics, the book is enhanced throughout with learning features

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such as boxed inserts and chapter summaries, with key mathematical derivations highlighted to aid understanding. The text is supported by numerous worked examples and end of chapter problem sets. About the Theoretical Physics series
Translated from the renowned and

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highly successful German editions, the eight volumes of this series cover the complete core curriculum of theoretical physics at undergraduate level. Each volume is self-contained and provides all the material necessary for the individual course topic. Numerous problems with

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detailed solutions support a deeper understanding. Wolfgang Nolting is famous for his refined didactical style and has been referred to as the "German Feynman" in reviews. This second edition is ideal for classical mechanics courses for first- and second-year undergraduates with

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foundation skills in mathematics.

Dynamics of Nonholonomic Systems

Quantum Mechanics - Methods and
Applications

Elements for Physics

A Student's Guide to Lagrangians and
Hamiltonians

An Introduction to Mechanics

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An accessible guide to analytical mechanics, using intuitive examples to illustrate the underlying mathematics, helping students formulate, solve and interpret problems in mechanics.

INTRODUCTION TO

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ANALYTICAL MECHANICS is an attempt to introduce the modern treatment of classical mechanics so that transition to many fields in physics can be made with the least difficulty. This book deal with the formulation of Newtonian

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mechanics, Lagrangian dynamics, conservation laws relating to symmetries, Hamiltonian dynamics Hamilton's principle, Poisson brackets, canonical transformations which are invaluable in formulating the quantum mechanics and

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Hamilton-Jacobi equation which provides the transition to wave mechanics.

Giving students a thorough grounding in basic problems and their solutions, Analytical Mechanics: Solutions to Problems in

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Classical Physics presents a short theoretical description of the principles and methods of analytical mechanics, followed by solved problems. The authors thoroughly discuss solutions to the problems by taking a comprehensive approach to

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explore the methods of investigation. They carefully perform the calculations step by step, graphically displaying some solutions via Mathematica® 4.0. This collection of solved problems gives students experience in applying theory

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(Lagrangian and Hamiltonian formalisms for discrete and continuous systems, Hamilton-Jacobi method, variational calculus, theory of stability, and more) to problems in classical physics. The authors develop some theoretical subjects, so

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that students can follow solutions to the problems without appealing to other reference sources. This has been done for both discrete and continuous physical systems or, in analytical terms, systems with finite and infinite degrees of freedom. The

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authors also highlight the basics of vector algebra and vector analysis, in Appendix B. They thoroughly develop and discuss notions like gradient, divergence, curl, and tensor, together with their physical applications. There are many

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excellent textbooks dedicated to applied analytical mechanics for both students and their instructors, but this one takes an unusual approach, with a thorough analysis of solutions to the problems and an appropriate choice of applications in

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various branches of physics. It lays out the similarities and differences between various analytical approaches, and their specific efficiency.

The series of texts on Classical Theoretical Physics is based on the

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highly successful courses given by Walter Greiner. The volumes provide a complete survey of classical theoretical physics and an enormous number of worked out examples and problems.

Problems and Solutions on

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Mechanics

Analytic Combinatorics

No-Nonsense Classical Mechanics

Mathematical Methods of Classical
Mechanics

Evolutionary Origins of Intelligence

Intelligence" has long been

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considered to be a feature unique to human beings, giving us the capacity to imagine, to think, to deceive, to make complex connections between cause and effect, to devise elaborate strategies for solving

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problems. However, like all our other features, intelligence is a product of evolutionary change. Until recently, it was difficult to obtain evidence of this process from the frail testimony of a few bones and stone tools. It has

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become clear in the last 15 years that the origins of human intelligence can be investigated by the comparative study of primates, our closest non-human relatives, giving strong impetus to the case for an "evolutionary

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psychology", the scientific study of the mind."

The *Mécanique analytique* presents a comprehensive account of Lagrangian mechanics. In this work, Lagrange used the Principle of

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Virtual Work in conjunction with the Lagrangian Multiplier to solve all problems of statics. For the treatment of dynamics, a third concept had to be added to the first two - d'Alembert's Principle - in order to develop the

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Lagrangian equations of motion.
Hence, Lagrange was able to
unify the entire science of
mechanics using only three
concepts and algebraic
operations.

simulated motion on a computer

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screen, and to study the effects of changing parameters. --

Through a series of recent breakthroughs, deep learning has boosted the entire field of machine learning. Now, even programmers who know close to

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nothing about this technology
can use simple, efficient tools to
implement programs capable of
learning from data. This practical
book shows you how. By using
concrete examples, minimal
theory, and two production-ready

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Python frameworks—Scikit-Learn and TensorFlow—author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems. You'll learn a range of techniques, starting with

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simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you 've learned, all you need is programming experience to get started. Explore the machine

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learning landscape, particularly
neural nets Use Scikit-Learn to
track an example machine-
learning project end-to-end
Explore several training models,
including support vector
machines, decision trees,

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random forests, and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures, including convolutional nets, recurrent nets, and deep reinforcement

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learning Learn techniques for
training and scaling deep neural
nets

Analytical Mechanics for
Relativity and Quantum
Mechanics

Separation of Variables and

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Exact Solutions to Nonlinear
PDEs

Classical Dynamics of Particles
and Systems

Hands-On Machine Learning
with Scikit-Learn, Keras, and
TensorFlow

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With Problems and Solutions
Separation of Variables and Exact
Solutions to Nonlinear PDEs is devoted
to describing and applying methods of
generalized and functional separation
of variables used to find exact solutions
of nonlinear partial differential

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equations (PDEs). It also presents the direct method of symmetry reductions and its more general version. In addition, the authors describe the differential constraint method, which generalizes many other exact methods. The presentation involves numerous

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examples of utilizing the methods to find exact solutions to specific nonlinear equations of mathematical physics. The equations of heat and mass transfer, wave theory, hydrodynamics, nonlinear optics, combustion theory, chemical

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technology, biology, and other disciplines are studied. Particular attention is paid to nonlinear equations of a reasonably general form that depend on one or several arbitrary functions. Such equations are the most difficult to analyze. Their exact

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solutions are of significant practical interest, as they are suitable to assess the accuracy of various approximate analytical and numerical methods. The book contains new material previously unpublished in monographs. It is intended for a broad audience of

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scientists, engineers, instructors, and students specializing in applied and computational mathematics, theoretical physics, mechanics, control theory, chemical engineering science, and other disciplines. Individual sections of the book and examples are suitable for

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lecture courses on partial differential equations, equations of mathematical physics, and methods of mathematical physics, for delivering special courses and for practical training.

A concise treatment of variational techniques, focussing on Lagrangian

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and Hamiltonian systems, ideal for physics, engineering and mathematics students.

Gregory's Classical Mechanics is a major new textbook for undergraduates in mathematics and physics. It is a thorough, self-contained and highly

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readable account of a subject many students find difficult. The author's clear and systematic style promotes a good understanding of the subject: each concept is motivated and illustrated by worked examples, while problem sets provide plenty of practice for

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Computer assisted problems, some suitable for projects, are also included. The book is structured to make learning the subject easy; there is a natural progression from core topics to more advanced ones and hard topics

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are treated with particular care. A theme of the book is the importance of conservation principles. These appear first in vectorial mechanics where they are proved and applied to problem solving. They reappear in analytical mechanics, where they are shown to be

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related to symmetries of the
Lagrangian, culminating in Noether's
theorem.

Covers both holonomic and non-
holonomic constraints in a study of the
mechanics of the constrained rigid
body. Covers all types of general

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constraints applicable to the solid rigid
Performs calculations in matrix form
Provides algorithms for the numerical
calculations for each type of constraint
Includes solved numerical examples
Accompanied by a website hosting
programs

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Introduction to Classical Mechanics
A Student's Guide to the Mathematics
of Astronomy
Theoretical Physics 7
Mechanics
Systems of Particles and Hamiltonian
Dynamics

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In Noether's original presentation of her celebrated theorem of 1918, allowances were made for the dependence of the coefficient functions of the differential operator which generated the infinitesimal transformation

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of the Action Integral upon the derivatives of the dependent variable(s), the so-called generalized, or dynamical, symmetries. A similar allowance is to be found in the variables of the boundary function, often

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termed a gauge function by those who have not read the original paper. This generality was lost after texts such as those of Courant and Hilbert or Lovelock and Rund confined attention to only point transformations. In

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***recent decades, this
diminution of the power of
Noether's Theorem has been
partly countered, in
particular, in the review of
Sarlet and Cantrijn. In this
Special Issue, we emphasize
the generality of Noether's***

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***Theorem in its original form
and explore the applicability
of even more general
coefficient functions by
allowing for nonlocal terms.
We also look at the
application of these more
general symmetries to***

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problems in which parameters or parametric functions have a more general dependence upon the independent variables.

Devoted to the foundation of mechanics, namely classical Newtonian mechanics, the

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subject is based mainly on Galileo's principle of relativity and Hamilton's principle of least action. The exposition is simple and leads to the most complete direct means of solving problems in mechanics. The final sections

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***on adiabatic invariants have
been revised and augmented.
In addition a short biography
of L D Landau has been
inserted.***

***Introduce your students to
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**that has set the standard in
the field for more than three
decades: INTRODUCTION TO
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Donald L. Pavia, Gary M.
Lampman, George A. Kriz, and
James R. Vyvyan. Whether
you use the book as a primary**

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text in an upper-level spectroscopy course or as a companion book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in

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acclaimed resource features
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presentation of one-
dimensional nuclear magnetic
resonance (NMR)
spectroscopy; an introduction
to biological molecules in***

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***mass spectrometry; and
coverage of modern
techniques alongside DEPT,
COSY, and HECTOR. Important
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description or the product
text may not be available in***

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the ebook version.

***Plain-language explanations
and a rich set of supporting
material help students
understand the mathematical
concepts and techniques of
astronomy.***

Solutions to Problems in

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Classical Physics

***Chemistry for Engineering
Students***

The Information

***Dynamics of the Rigid Solid
with General Constraints by a
Multibody Approach***

Introduction to Spectroscopy

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This book constructs the mathematical apparatus of classical mechanics from the beginning, examining basic problems in dynamics like the theory of oscillations

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and the Hamiltonian formalism. The author emphasizes geometrical considerations and includes phase spaces and flows, vector fields, and Lie groups.

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Discussion includes qualitative methods of the theory of dynamical systems and of asymptotic methods like averaging and adiabatic invariance.

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Newtonian mechanics :
dynamics of a point mass
(1001-1108) - Dynamics
of a system of point
masses (1109-1144) -
Dynamics of rigid bodies
(1145-1223) - Dynamics

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of deformable bodies
(1224-1272) - Analytical
mechanics : Lagrange's
equations (2001-2027) -
Small oscillations
(2028-2067) - Hamilton's
canonical equations

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(2068-2084) - Special
relativity (3001-3054).
Analytic combinatorics
aims to enable precise
quantitative predictions
of the properties of
large combinatorial

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structures. The theory has emerged over recent decades as essential both for the analysis of algorithms and for the study of scientific models in many

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disciplines, including probability theory, statistical physics, computational biology, and information theory. With a careful combination of symbolic

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enumeration methods and
complex analysis,
drawing heavily on
generating functions,
results of sweeping
generality emerge that
can be applied in

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particular to
fundamental structures
such as permutations,
sequences, strings,
walks, paths, trees,
graphs and maps. This
account is the

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definitive treatment of
the topic. The authors
give full coverage of
the underlying
mathematics and a
thorough treatment of
both classical and

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modern applications of the theory. The text is complemented with exercises, examples, appendices and notes to aid understanding. The book can be used for an

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advanced undergraduate
or a graduate course, or
for self-study.

An introduction to the
basic principles and
methods of analytical
mechanics, with selected

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examples of advanced
topics and areas of
ongoing research.

Concepts, Tools, and
Techniques to Build
Intelligent Systems
Physics for Scientists

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and Engineers, Volume 2
A History, a Theory, a
Flood
A Student-Friendly
Introduction
A Student's Guide to
Analytical Mechanics

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Analytical Mechanics, first published in 1999, provides a detailed introduction to the key analytical techniques of classical mechanics, one of the cornerstones of physics. It deals with all the important subjects encountered in an undergraduate

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course and prepares the reader thoroughly for further study at graduate level. The authors set out the fundamentals of Lagrangian and Hamiltonian mechanics early on in the book and go on to cover such topics as linear oscillators, planetary orbits, rigid-body

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motion, small vibrations, nonlinear dynamics, chaos, and special relativity. A special feature is the inclusion of many 'e-mail questions', which are intended to facilitate dialogue between the student and instructor. Many worked examples are given, and

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there are 250 homework exercises to help students gain confidence and proficiency in problem-solving. It is an ideal textbook for undergraduate courses in classical mechanics, and provides a sound foundation for graduate study. An innovative and mathematically

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sound treatment of the foundations of analytical mechanics and the relation of classical mechanics to relativity and quantum theory. It presents classical mechanics in a way designed to assist the student's transition to quantum theory.

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CHEMISTRY FOR ENGINEERING STUDENTS, connects chemistry to engineering, math, and physics; includes problems and applications specific to engineering; and offers realistic worked problems in every chapter that speak to your interests as a future engineer.

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Packed with built-in study tools, this textbook gives you the resources you need to master the material and succeed in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the

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Classical Dynamics of Particles and Systems presents a modern and reasonably complete account of the classical mechanics of particles, systems of particles, and rigid bodies for physics students at the advanced undergraduate level.

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The book aims to present a modern treatment of classical mechanical systems in such a way that the transition to the quantum theory of physics can be made with the least possible difficulty; to acquaint the student with new mathematical techniques and

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provide sufficient practice in solving problems; and to impart to the student some degree of sophistication in handling both the formalism of the theory and the operational technique of problem solving. Vector methods are developed in the first two chapters

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and are used throughout the book. Other chapters cover the fundamentals of Newtonian mechanics, the special theory of relativity, gravitational attraction and potentials, oscillatory motion, Lagrangian and Hamiltonian dynamics, central-force motion,

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two-particle collisions, and the
wave equation.

Quantities, Qualities, and Intrinsic
Theories

Introduction to Analytical
Mechanics

The Thinking Ape

Analytical Mechanics

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Molecular Thermodynamics Of
Electrolyte Solutions (Second
Edition)

***From the bestselling author of
the acclaimed Chaos and Genius
comes a thoughtful and
provocative exploration of the big
ideas of the modern era:***

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Information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating

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intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new

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information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is

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***transforming not only how we
look at the world, but how we
live. A New York Times Notable
Book A Los Angeles Times and
Cleveland Plain Dealer Best Book
of the Year Winner of the PEN/E.
O. Wilson Literary Science
Writing Award***

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Electrolytes and salt solutions are ubiquitous in chemical industry, biology and nature. This unique compendium introduces the elements of the solution properties of ionic mixtures. In addition, it also serves as a bridge to the modern researches

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into the molecular aspects of uniform and non-uniform charged systems. Notable subjects include the Debye-Hückel limit, Pitzer's formulation, Setchenov salting-out, and McMillan-Mayer scale. Two new chapters on industrial

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applications – natural gas treating, and absorption refrigeration, are added to make the book current and relevant. This textbook is eminently suitable for undergraduate and graduate students. For practicing

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engineers without a background in salt solutions, this introductory volume can also be used as a self-study.

The new edition of a classic text that concentrates on developing general methods for studying the behavior of classical systems,

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***with extensive use of
computation. We now know that
there is much more to classical
mechanics than previously
suspected. Derivations of the
equations of motion, the focus of
traditional presentations of
mechanics, are just the***

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beginning. This innovative textbook, now in its second edition, concentrates on developing general methods for studying the behavior of classical systems, whether or not they have a symbolic solution. It focuses on the phenomenon of motion and

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makes extensive use of computer simulation in its explorations of the topic. It weaves recent discoveries in nonlinear dynamics throughout the text, rather than presenting them as an afterthought. Explorations of phenomena such as the transition

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***to chaos, nonlinear resonances,
and resonance overlap to help the
student develop appropriate
analytic tools for understanding.
The book uses computation to
constrain notation, to capture
and formalize methods, and for
simulation and symbolic analysis.***

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The requirement that the computer be able to interpret any expression provides the student with strict and immediate feedback about whether an expression is correctly formulated. This second edition has been updated throughout,

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with revisions that reflect insights gained by the authors from using the text every year at MIT. In addition, because of substantial software improvements, this edition provides algebraic proofs of more generality than those in the

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first published in 1998, is a comprehensive textbook that provides a complete description of this fundamental branch of physics. The authors cover all the material that one would expect to find in a standard graduate course: Lagrangian and

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Hamiltonian dynamics, canonical transformations, the Hamilton-Jacobi equation, perturbation methods, and rigid bodies. They also deal with more advanced topics such as the relativistic Kepler problem, Liouville and Darboux theorems, and inverse

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and chaotic scattering. A key feature of the book is the early introduction of geometric (differential manifold) ideas, as well as detailed treatment of topics in nonlinear dynamics (such as the KAM theorem) and continuum dynamics (including

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solitons). The book contains many worked examples and over 200 homework exercises. It will be an ideal textbook for graduate students of physics, applied mathematics, theoretical chemistry, and engineering, as well as a useful reference for

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