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Introductory Quantum Mechanics -
Richard L. Liboff 1992
The new edition reflects the progress of
physics in both esoteric and pragmatic

directions. A complete and detailed
presentation, with modern applications,
problems, and examples. Annotation
copyright Book News, Inc. Portland, Or.

An Introduction to Modern

Astrophysics - Bradley W. Carroll

2017-09-07

An Introduction to Modern Astrophysics is a comprehensive, well-organized and engaging text covering every major area of modern astrophysics, from the solar system and stellar astronomy to galactic and extragalactic astrophysics, and cosmology. Designed to provide students with a working knowledge of modern astrophysics, this textbook is suitable for astronomy and physics majors who have had a first-year introductory physics course with calculus. Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe; worked examples to facilitate the understanding of the concepts presented in the book; end-of-chapter problems to practice the skills acquired; and computational exercises to numerically

model astronomical systems, the second edition of An Introduction to Modern Astrophysics is the go-to textbook for learning the core astrophysics curriculum as well as the many advances in the field.

The Physics of the Two-Dimensional

Electron Gas - J.T. Devreese 2012-12-06

The 1986 Advanced Study Institute on "The Physics of the two-Dimensional Electron Gas" took place at the Conference Centre "De Helme", close to Oostende (Belgium), from June 2 till 16, 1986. We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two-dimensional electron gas. An additional motivation was our own theoretical interest in cyclotron resonance in two-dimensional electron systems at our institute. It is my pleasure to thank several instances and people who made this Advanced Study Institute possible. First of

all, the sponsor of the Advanced Study Institute, the NATO Scientific Committee. Furthermore, the co sponsors: Agfa Gevaert, Bell Telephone Mfg. Co. N.V., Burroughs Belgium. Control Data. Digital Equipment Corporation, Esso Belgium. European Research Office (USA). Kredietbank. National Science Foundation (USA). Special thanks are due to the members of the Program Committee and the members of the Organizing Committee. I would also like to thank Mrs. H. Evans for typing assistance.

Band Theory and Electronic Properties of Solids - John Singleton 2001-08-30

This book provides an introduction to band theory and the electronic properties of materials at a level suitable for final-year undergraduates or first-year graduate students. It sets out to provide the vocabulary and quantum-mechanical training necessary to understand the

electronic, optical and structural properties of the materials met in science and technology and describes some of the experimental techniques which are used to study band structure today. In order to leave space for recent developments, the Drude model and the introduction of quantum statistics are treated synoptically. However, Bloch's theorem and two tractable limits, a very weak periodic potential and the tight-binding model, are developed rigorously and in three dimensions. Having introduced the ideas of bands, effective masses and holes, semiconductor and metals are treated in some detail, along with the newer ideas of artificial structures such as super-lattices and quantum wells, layered organic substances and oxides. Some recent 'hot topics' in research are covered, e.g. the fractional Quantum Hall Effect and nano-devices, which can be understood using the

techniques developed in the book. In illustrating examples of e.g. the de Haas-van Alphen effect, the book focuses on recent experimental data, showing that the field is a vibrant and exciting one.

References to many recent review articles are provided, so that the student can conduct research into a chosen topic at a deeper level. Several appendices treating topics such as phonons and crystal structure make the book self-contained introduction to the fundamentals of band theory and electronic properties in condensed matter physics today.

Motion Mountain - Vol. 1 - The Adventure of Physics - Christoph Schiller 2013-12-07

How high can animals jump? What are the fastest thrown balls? How fast can aeroplanes and butterflies fly? What does the sea level tell us about the sun? What are temperature and heat? What is self-organization? This free colour pdf on

introductory physics guarantees to be entertaining, surprising and challenging on every page. The text presents the best stories, images, movies and puzzles in mechanics, gravity and thermodynamics - with little mathematics, always starting from observations of everyday life. This first volume also explains conservation laws and the reversibility of motion, explores mirror symmetry, and presents the principle of cosmic laziness: the principle of least action. This popular series has already more than 160 000 readers. If you are between the age of 16 and 106 and want to understand nature, you will enjoy it! To achieve wonder and thrill on every page, the first volume includes the various "colour of the bear" puzzles and the "picture on the wall" puzzle, explains about the many types of water waves, introduces the art of laying rope, tells about the dangers of aeroplane toilets, explores the

jumping height of different animals, presents the surprising motion of moguls on skiing slopes, explains why ultrasound imaging is not safe for a foetus, gives the ideal shape of skateboard half-pipes, estimates the total length of all capillaries in the human body, explains how it is possible to plunge a bare hand into molten lead, includes a film of an oscillating quartz inside a watch, includes the "handcuff puzzle" and the "horse pulling a rubber with a snail on it" puzzle, explains how jet pilots frighten civilians with sonic superbooms produced by fighter planes, presents the most beautiful and precise sundial available today, shows leap-frogging vortex rings, tells the story of the Galilean satellites of Jupiter, mentions the world records for running backwards and the attempts to break the speed sailing record, and tells in detail how to learn from books with as little effort as possible. Enjoy

the reading!

Transmission Electron Microscopy -

David Bernard Williams 1996

This groundbreaking text provides the necessary instructions for hands-on application of this versatile materials characterization technique and is supported by over 600 illustrations and diagrams.

Analog Integrated Circuit Design -

Tony Chan Carusone 2012

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include

topics on frequency response of analog ICs and basic theory of feedback amplifiers.

Quantum Physics - Stephen Gasiorowicz
2003-04-17

Balances mathematical discussions with physical discussions. * Derivations are complete and the theory is applied whenever possible. * Gasiorowicz is a world class researcher in quantum physics.

Fundamentals of Molecular Symmetry - P.R. Bunker 2018-10-03

Winner of a 2005 CHOICE Outstanding Academic Book Award Molecular symmetry is an easily applied tool for understanding and predicting many of the properties of molecules. Traditionally, students are taught this subject using point groups derived from the equilibrium geometry of the molecule. *Fundamentals of Molecular Symmetry* shows how to set up symmetry groups for molecules using the more general idea of energy invariance. It is no

more difficult than using molecular geometry and one obtains molecular symmetry groups. The book provides an introductory description of molecular spectroscopy and quantum mechanics as the foundation for understanding how molecular symmetry is defined and used. The approach taken gives a balanced account of using both point groups and molecular symmetry groups. Usually the point group is only useful for isolated, nonrotating molecules, executing small amplitude vibrations, with no tunneling, in isolated electronic states. However, for the chemical physicist or physical chemist who wishes to go beyond these limitations, the molecular symmetry group is almost always required.

Elementary Particle Physics - Stephen Gasiorowicz 1966

Introduction to Mathematical Statistics,

Fifth Edition - Robert V. Hogg 1995

A First Course in Turbulence - Henk Tennekes 2018-04-27

This is the first book specifically designed to offer the student a smooth transitional course between elementary fluid dynamics (which gives only last-minute attention to turbulence) and the professional literature on turbulent flow, where an advanced viewpoint is assumed. The subject of turbulence, the most forbidding in fluid dynamics, has usually proved treacherous to the beginner, caught in the whirls and eddies of its nonlinearities and statistical imponderables. This is the first book specifically designed to offer the student a smooth transitional course between elementary fluid dynamics (which gives only last-minute attention to turbulence) and the professional literature on turbulent flow, where an advanced viewpoint is

assumed. Moreover, the text has been developed for students, engineers, and scientists with different technical backgrounds and interests. Almost all flows, natural and man-made, are turbulent. Thus the subject is the concern of geophysical and environmental scientists (in dealing with atmospheric jet streams, ocean currents, and the flow of rivers, for example), of astrophysicists (in studying the photospheres of the sun and stars or mapping gaseous nebulae), and of engineers (in calculating pipe flows, jets, or wakes). Many such examples are discussed in the book. The approach taken avoids the difficulties of advanced mathematical development on the one side and the morass of experimental detail and empirical data on the other. As a result of following its midstream course, the text gives the student a physical understanding of the subject and deepens his intuitive insight

into those problems that cannot now be rigorously solved. In particular, dimensional analysis is used extensively in dealing with those problems whose exact solution is mathematically elusive. Dimensional reasoning, scale arguments, and similarity rules are introduced at the beginning and are applied throughout. A discussion of Reynolds stress and the kinetic theory of gases provides the contrast needed to put mixing-length theory into proper perspective: the authors present a thorough comparison between the mixing-length models and dimensional analysis of shear flows. This is followed by an extensive treatment of vorticity dynamics, including vortex stretching and vorticity budgets. Two chapters are devoted to boundary-free shear flows and well-bounded turbulent shear flows. The examples presented include wakes, jets, shear layers, thermal plumes, atmospheric boundary layers, pipe

and channel flow, and boundary layers in pressure gradients. The spatial structure of turbulent flow has been the subject of analysis in the book up to this point, at which a compact but thorough introduction to statistical methods is given. This prepares the reader to understand the stochastic and spectral structure of turbulence. The remainder of the book consists of applications of the statistical approach to the study of turbulent transport (including diffusion and mixing) and turbulent spectra.

[An Introduction to Mechanics](#) - Daniel Kleppner 2014

This second edition is ideal for classical mechanics courses for first- and second-year undergraduates with foundation skills in mathematics.

A Modern Approach to Quantum Mechanics - John S. Townsend 2000
Inspired by Richard Feynman and J.J.

Sakurai, *A Modern Approach to Quantum Mechanics* allows lecturers to expose their undergraduates to Feynman's approach to quantum mechanics while simultaneously giving them a textbook that is well-ordered, logical and pedagogically sound. This book covers all the topics that are typically presented in a standard upper-level course in quantum mechanics, but its teaching approach is new. Rather than organizing his book according to the historical development of the field and jumping into a mathematical discussion of wave mechanics, Townsend begins his book with the quantum mechanics of spin. Thus, the first five chapters of the book succeed in laying out the fundamentals of quantum mechanics with little or no wave mechanics, so the physics is not obscured by mathematics. Starting with spin systems it gives students straightforward examples of the structure of quantum mechanics. When

wave mechanics is introduced later, students should perceive it correctly as only one aspect of quantum mechanics and not the core of the subject.

Business Economics - Joshua Gans 2015

The AP Physics C Companion - Dan Fullerton 2017-02-15

The AP Physics C Companion is not a textbook replacement nor is it a strict test-prep guide. It is a short, sweet roadmap to calculus-based physics courses such as AP Physics C: Mechanics and University Physics I, invaluable not just during test prep time, but throughout the entire course. The book lays out basic physics principles as quickly and clearly as possible, then demonstrates their application with hundreds of example problems solved in detail. Written by a physics teacher, The AP Physics C Companion correlates directly with the

APlusPhysics.com website, where you will find free video mini-lessons explaining fundamental concepts, detailed study guides, a question and answer discussion board, and most importantly, a meeting place where you can interact with other students from around the world.

The Art of Tracking - Louis Liebenberg
1990

The Art of Tracking is a full fascinating insight into the complex world of hunter-gatherer, It is compelling reading for both the general readers and scholars in the field. It also contains beautiful illustrations by the author.

Fundamentals of Modern Physics - Robert Eisberg 1961

Under the Spell of Landau - M. Shifman
2013

This invaluable collection of memoirs and reviews on scientific activities of the most

prominent theoretical physicists belonging to the Landau School OCo Landau, Anselm, Gribov, Zeldovich, Kirzhnits, Migdal, Ter-Martirosyan and Larkin OCo are being published in English for the first time. The main goal is to acquaint readers with the life and work of outstanding Soviet physicists who, to a large extent, shaped theoretical physics in the 1950s OCo 70s. Many intriguing details have remained unknown beyond the OC Iron Curtain OCo which was dismantled only with the fall of the USSR.

Advanced Quantum Mechanics -

Freeman J. Dyson 2011

Renowned physicist and mathematician Freeman Dyson is famous for his work in quantum mechanics, nuclear weapons policy and bold visions for the future of humanity. In the 1940s, he was responsible for demonstrating the equivalence of the two formulations of quantum

electrodynamics OCo Richard Feynman's diagrammatic path integral formulation and the variational methods developed by Julian Schwinger and Sin-Itiro Tomonoga OCo showing the mathematical consistency of QED. This invaluable volume comprises the legendary lectures on quantum electrodynamics first given by Dyson at Cornell University in 1951. The late theorist Edwin Thompson Jaynes once remarked, OC For a generation of physicists they were the happy medium: clearer and better motivated than Feynman, and getting to the point faster than SchwingerOCO. This edition has been printed on the 60th anniversary of the Cornell lectures, and includes a foreword by science historian David Kaiser, as well as notes from Dyson's lectures at the Les Houches Summer School of Theoretical Physics in 1954. The Les Houches lectures, described as a supplement to the original Cornell notes,

provide a more detailed look at field theory, a careful and rigorous derivation of Fermi's Golden Rule, and a masterful treatment of renormalization and Ward's Identity. Future generations of physicists are bound to read these lectures with pleasure, benefiting from the lucid style that is so characteristic of Dyson's exposition.

General Principles of Quantum

Mechanics - Wolfgang Pauli 2012-12-06

I am very happy to accept the translators' invitation to write a few lines of introduction to this book. Of course, there is little need to explain the author. Pauli's first famous work, his article on the theory of relativity in the Encyklopädie der Mathematischen Wissenschaften was written at the age of twenty. He afterwards took part in the development of atomic physics from the still essentially classical picture of Bohr's early work to the true quantum mechanics. Thereafter, some of

his work concerned the treatment of problems in the framework of the new theory, especially his paper on the hydrogen atom following the matrix method without recourse to Schrodinger's analytic form of the theory. His greatest achievement, the exclusion principle, generally known today under his own name as the Pauli principle, that governs the quantum theory of all problems including more than one electron, preceded the basic work of Heisenberg and Schrodinger, and brought him the Nobel prize. It includes the mathematical treatment of the spin by means of the now so well known Pauli matrices. In 1929, in a paper with Heisenberg, he laid the foundation of quantum electrodynamics and, in doing so, to the whole theory of quantized wave fields which was to become the via regia of access to elementary particle physics, since here for the first time processes of generation

and annihilation of particles could be described for the case of the photons.

Quarks, Leptons and The Big Bang, Second Edition - Jonathan Allday
2001-01-01

Quarks, Leptons and The Big Bang is a clear, readable and self-contained introduction to particle physics and related areas of cosmology. It bridges the gap between non-technical popular accounts and textbooks for advanced students. The book concentrates on presenting the subject from the modern perspective of quarks, leptons and the forces between them. This book will be of interest to students, teachers and general science readers interested in fundamental ideas of modern physics.

Alice in Quantumland - Robert Gilmore
1995-07-21

In this cleverly conceived book, physicist Robert Gilmore makes accessible some

complex concepts in quantum mechanics by sending Alice to Quantumland—a whole new Wonderland, smaller than an atom, where each attraction demonstrates a different aspect of quantum theory. Alice's unusual encounters, enhanced by illustrations by Gilmore himself, make the Uncertainty Principle, wave functions, the Pauli Principle, and other elusive concepts easier to grasp.

Introduction to Cosmology - Matts Roos
2015-02-25

The Fourth Edition of *Introduction to Cosmology* provides a concise, authoritative study of cosmology at an introductory level. Starting from elementary principles and the early history of cosmology, the text carefully guides the student on to curved spacetimes, special and general relativity, gravitational lensing, the thermal history of the Universe, and cosmological models, including extended gravity models, black

holes and Hawking's recent conjectures on the not-so-black holes. *Introduction to Cosmology*, Fourth Edition includes: New theoretical approaches and in-depth material on observational astrophysics and expanded sections on astrophysical phenomena. Illustrations throughout and comprehensive references with problems at the end of each chapter and a rich index at the end of the book. Latest observational results from WMAP9, ACT, and Planck, and all cosmological parameters have been brought up to date. This text is invaluable for undergraduate students in physics and astrophysics taking a first course in cosmology. Extensively revised, this latest edition extends the chapter on cosmic inflation to the recent schism on eternal inflation and multiverses. Dark matter is discussed on galaxy and cluster scales, and dark matter candidates are presented, some requiring a five-dimensional universe

and several representing various types of exotica. In the context of cosmic structures the cold dark matter paradigm is described. Dark energy models include the cosmological constant, quintessence and other single field models, $f(R)$ models and models requiring extra dimensions.

Quantum Information Theory and the Foundations of Quantum Mechanics -

Christopher G. Timpson 2013-04-25
Quantum Information Theory and the Foundations of Quantum Mechanics is a conceptual analysis of one the most prominent and exciting new areas of physics, providing the first full-length philosophical treatment of quantum information theory and the questions it raises for our understanding of the quantum world. Beginning from a careful, revisionary, analysis of the concepts of information in the everyday and classical information-theory settings, Christopher G.

Timpson argues for an ontologically deflationary account of the nature of quantum information. Against what many have supposed, quantum information can be clearly defined (it is not a primitive or vague notion) but it is not part of the material contents of the world. Timpson's account sheds light on the nature of nonlocality and information flow in the presence of entanglement and, in particular, dissolves puzzles surrounding the remarkable process of quantum teleportation. In addition it permits a clear view of what the ontological and methodological lessons provided by quantum information theory are; lessons which bear on the gripping question of what role a concept like information has to play in fundamental physics. Topics discussed include the slogan 'Information is Physical', the prospects for an informational immaterialism (the view that information

rather than matter might fundamentally constitute the world), and the status of the Church-Turing hypothesis in light of quantum computation. With a clear grasp of the concept of information in hand, Timpson turns his attention to the pressing question of whether advances in quantum information theory pave the way for the resolution of the traditional conceptual problems of quantum mechanics: the deep problems which loom over measurement, nonlocality and the general nature of quantum ontology. He marks out a number of common pitfalls to be avoided before analysing in detail some concrete proposals, including the radical quantum Bayesian programme of Caves, Fuchs, and Schack. One central moral which is drawn is that, for all the interest that the quantum information-inspired approaches hold, no cheap resolutions to the traditional problems of quantum mechanics are to be

had.

Time and Chance - David Z. ALBERT
2009-06-30

This book is an attempt to get to the bottom of an acute and perennial tension between our best scientific pictures of the fundamental physical structure of the world and our everyday empirical experience of it. The trouble is about the direction of time. The situation (very briefly) is that it is a consequence of almost every one of those fundamental scientific pictures--and that it is at the same time radically at odds with our common sense--that whatever can happen can just as naturally happen backwards. Albert provides an unprecedentedly clear, lively, and systematic new account--in the context of a Newtonian-Mechanical picture of the world--of the ultimate origins of the statistical regularities we see around us, of the temporal irreversibility of the Second Law

of Thermodynamics, of the asymmetries in our epistemic access to the past and the future, and of our conviction that by acting now we can affect the future but not the past. Then, in the final section of the book, he generalizes the Newtonian picture to the quantum-mechanical case and (most interestingly) suggests a very deep potential connection between the problem of the direction of time and the quantum-mechanical measurement problem. The book aims to be both an original contribution to the present scientific and philosophical understanding of these matters at the most advanced level, and something in the nature of an elementary textbook on the subject accessible to interested high-school students. Table of Contents: Preface 1. Time-Reversal Invariance 2. Thermodynamics 3. Statistical Mechanics 4. The Reversibility Objections and the Past-Hypothesis 5. The Scope of

Thermodynamics 6. The Asymmetries of Knowledge and Intervention 7. Quantum Mechanics Appendix: Gedankenexperiments with Heat Engines Index Reviews of this book: The foundations of statistical mechanisms are often presented in physics textbooks in a rather obscure and confused way. By challenging common ways of thinking about this subject, Time and Chance can do quite a lot to improve this situation. --Jean Bricmont, Science Albert is perfecting a style of foundational analysis that is uniquely his own...It has a surgical precision...and it is ruthless with pretensions. The foundations of thermodynamics is a topic that has accumulated a good deal of dead wood; this is a fire that will burn and burn. --Simon W. Saunders, Oxford University As usual with Albert's work, the exposition is brisk and to the point, and exceptionally clear...The book will be an extremely valuable

contribution to the literature on the subject of philosophical issues in thermodynamics and statistical mechanics, a literature which has been thin on the ground but is now growing as it deserves to. --Lawrence Sklar, University of Michigan

Machines and Mechanisms - David H. Myszka 2012

This up-to-date introduction to kinematic analysis ensures relevance by using actual machines and mechanisms throughout. *MACHINES & MECHANISMS, 4/e* provides the techniques necessary to study the motion of machines while emphasizing the application of kinematic theories to real-world problems. State-of-the-art techniques and tools are utilized, and analytical techniques are presented without complex mathematics. Reflecting instructor and student feedback, this Fourth Edition's extensive improvements include: a new section introducing special-purpose

mechanisms; expanded descriptions of kinematic properties; clearer identification of vector quantities through standard boldface notation; new timing charts; analytical synthesis methods; and more. All end-of-chapter problems have been reviewed, and many new problems have been added.

An Introduction to Numerical Analysis - Endre Süli 2003-08-28

Numerical analysis provides the theoretical foundation for the numerical algorithms we rely on to solve a multitude of computational problems in science. Based on a successful course at Oxford University, this book covers a wide range of such problems ranging from the approximation of functions and integrals to the approximate solution of algebraic, transcendental, differential and integral equations. Throughout the book, particular attention is paid to the essential qualities of

a numerical algorithm - stability, accuracy, reliability and efficiency. The authors go further than simply providing recipes for solving computational problems. They carefully analyse the reasons why methods might fail to give accurate answers, or why one method might return an answer in seconds while another would take billions of years. This book is ideal as a text for students in the second year of a university mathematics course. It combines practicality regarding applications with consistently high standards of rigour.

Directions - 1980

Gravitation - Charles W. Misner
2017-10-24

Spacetime physics -- Physics in flat spacetime -- The mathematics of curved spacetime -- Einstein's geometric theory of gravity -- Relativistic stars -- The universe -- Gravitational collapse and black holes --

Gravitational waves -- Experimental tests of general relativity -- Frontiers

Fundamentals of Engineering Economics - Chan S. Park 2009

This work offers a concise, but in-depth coverage of all fundamental topics of engineering economics.

Quantum Optics - Anthony Mark Fox
2006-04-27

Written primarily for advanced undergraduate and Master's level students in physics, this text includes a broad range of topics in applied quantum optics such as laser cooling, Bose-Einstein condensation and quantum information processing.

Quantum Physics - Stephen Gasiorowicz
1974-04-24

Provides an extensive introduction to quantum mechanics, with great emphasis on applications to a large part of modern physics.

Magnetic Oscillations in Metals - D.

Shoenberg 2009-09-03

It is just over 80 years ago that a striking oscillatory field dependence was discovered in the magnetic behaviour of bismuth at low temperatures. This book was first published in 1984 and gives a systematic account of the nature of the oscillations, of the experimental techniques for their study and of their connection with the electronic structure of the metal concerned. Although the main emphasis is on the oscillations themselves and their many peculiarities, rather than on the theory of the electronic structure they reveal, sufficient examples are given in detail to illustrate the kind of information that has been obtained and how this information agrees with theoretical prediction.

Books in Print Supplement - 1984

Fundamentals of Machine Elements -
Bernard J. Hamrock 2007-02-01

Provides undergraduates and practicing engineers with an understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build their skills in analysis and design.

Quantum Physics, 3Rd Ed - Stephen Gasiorowicz 2007-01-29

Quantum Physics is a unique book in that it has a mathematical orientation and focuses only on the core quantum concepts.· The Emergence of Quantum Physics· Wave Particle Duality, Probability, and the Schrödinger Equation· Eigenvalues, Eigenfunctions, and the Expansion Postulate· One-Dimensional Potentials· The General Structure of Wave Mechanics· Operator Methods in Quantum Mechanics· Angular Momentum· The Schrödinger Equation in Three Dimensions and the

Hydrogen Atom· Matrix Representation of Operators· Spin· Time-Independent Perturbation Theory· The Real Hydrogen Atom· Many Particle Systems· About Atoms and Molecules· Time-Dependent Perturbation Theory· The Interaction of Charged Particles with the Electromagnetic Field· Radiative Decays· Selected Topics on Radiation· Collision Theory· Entanglement and Its Implications· Physical Constants
The correspondence principle (1918-1923) - Niels Bohr 2008

Principles of Quantum Mechanics - Hans C. Ohanian 1990

One semester introduction to the major concepts of quantum mechanics. Emphasis is on abstract state vectors and on operators.

Engineering Dynamics - Jerry Ginsberg 2008

A modern vector oriented treatment of classical dynamics and its application to engineering problems.