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Electronic Conduction: Classical and Quantum Theory to Nanoelectronic Devices provides a concise, complete introduction to the fundamental principles of electronic conduction in microelectronic and nanoelectronic devices, with an emphasis on integrating the quantum aspects of conduction. The chapter coverage begins by presenting the classical theory of conduction, including introductory chapters on quantum mechanics and the solid state, then moving to a complete presentation of essential theory for understanding modern electronic devices. The author's unique approach is applicable to microscale and nanoscale device simulation, which is particularly timely given the explosion in the nanoelectronics field. Features Self-contained Gives a complete account of classical and quantum aspects of conduction in nanometer scale devices Emphasises core principles, the book can be useful to electrical engineers and material scientists, and no prior course in semiconductors is necessary Highlights the bridge to modern electronics, first presenting the physics, and then the engineering complications related to quantum behaviour Includes many clear, illustrative diagrams and chapter problem sets Gives an account of post-Silicon devices such as the GaAs MOSFET, the CNT-FET and the vacuum transistor Showcases why quantum mechanics is necessary with modern devices due to their size and corresponding electron transport properties Discusses all the issues that will enable readers to conduct their own research This monograph considers systems of infinite

number of particles, in particular the justification of the procedure of thermodynamic limit transition. The authors discuss the equilibrium and non-equilibrium states of infinite classical statistical systems. Those states are defined in terms of stationary and nonstationary solutions to the Bogolyubov equations for the sequences of correlation functions in the thermodynamic limit. This is the first detailed investigation of the thermodynamic limit for non-equilibrium systems and of the states of infinite systems in the cases of both canonical and grand canonical ensembles, for which the thermodynamic equivalence is proved. A comprehensive survey of results is also included; it concerns the properties of correlation functions for infinite systems and the corresponding equations. For this new edition, the authors have made changes to reflect the development of theory in the last ten years. They have also simplified certain sections, presenting them more systematically, and greatly increased the number of references. The book is aimed at theoretical physicists and mathematicians and will also be of use to students and postgraduate students in the field.

Mechanics: Classical and Quantum is a 13-chapter book that begins by explaining the Lagrangian and Hamiltonian formulation of mechanics. The Hamilton-Jacobi theory, historical background of the quantum theory, and wave mechanics are then described. Subsequent chapters discuss the time-independent Schrödinger equation and some of its applications; the operators, observables, and the quantization of a physical system; the significance of expectation values; and the concept of measurement in quantum mechanics. The matrix mechanics and the "hydrogenic atom", an atom in which one electron moves under the influence of a nucleus of charge that, to a very good approximation, can be thought of as a point, are also presented. This book will be very useful to students studying this field of interest. First written in response to a JACT survey of over 100 schools, and now endorsed by OCR, this textbook has become a standard resource for students in the UK and for readers across the world who are looking for a clear and thorough introduction to the language of the ancient Greeks. Revised throughout and enhanced by coloured artwork and text features, this edition will support the new OCR specification for Classical Greek (first teaching 2016).

Part 1 covers the basics and is self-contained, with its own reference section. It covers the main declensions, a range of active tenses and a vocabulary of 250 Greek words to be learned. Pupil confidence is built up by constant consolidation of the material covered. After the preliminaries, each chapter concentrates on stories with one source or subject: Aesop, Homer's *Odyssey* and Alexander the Great, providing an excellent introduction to Greek culture alongside the language study. Written by a long-time school teacher and examiner, this two-part course is based on experience of what pupils find difficult, concentrating on the essentials and on the understanding of principles in both accidence and syntax: minor irregularities are postponed and subordinated so that the need for rote learning is reduced. It aims to be user-friendly, but also to give pupils a firm foundation for further study. Responding to the reassertion of orality in the twentieth century in the form of electronic media such as the telegraph, film, video, computers, and television, this unique volume traces the roots of classical

rhetoric in the modern world. Welch begins by changing the current view of classical rhetoric by reinterpreting the existing texts into fluid language contexts -- a change that requires relinquishing the formulaic tradition, acquiring an awareness of translation issues, and constructing a classical rhetoric beginning with the Fifth Century B.C. She continues with a discussion of the adaptability of this material to new language situations, including political, cultural, and linguistic change, providing it with much of its power as well as its longevity. The book concludes that classical rhetoric can readily address any situation since it focuses not only on critical stances toward discourse that already exists, but also presents elaborate theories for the production of new discourse. This textbook covers all the standard introductory topics in classical mechanics, including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics, such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic. There are also over 350 unworked exercises which are ideal for homework assignments. Password protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text, discussing issues that are often glossed over in other textbooks, and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts. This book is designed to serve as a textbook for postgraduates, researchers of applied mathematics, theoretical physics and students of engineering who need a good understanding of classical mechanics. In this book emphasis has been placed on the logical ordering of topics and appropriate formulation of the key mathematical equations with a view to imparting a clear idea of the basic tools of the subject and improving the problem solving skills of the students. The book provides a largely self-contained exposition to the topics with new ideas as a smooth continuation of the preceding ones. It is expected to give a systematic and comprehensive coverage of the methods of classical mechanics. Gregory's Classical Mechanics is a major new textbook for undergraduates in mathematics and physics. It is a thorough, self-contained and highly 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 understanding and technique. 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 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 related to symmetries of the Lagrangian, culminating in Noether's theorem. Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts,

persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9781891389221 This radical study argues against the view that the historian's craft has remained largely unchanged since classical times. Includes detailed discussion of the work of Thucydides, Cicero, Sallust, Livy and Tacitus. TV artist and teacher Hazel Soan is well known for her watercolours of Africa. This illustrated guide is both a safari through her beloved southern Africa and an instructional journey through a range of subjects, showing different ways to see and paint them. Aimed at the more practised painter, this is an useful book for the reader looking to add adventure to their painting. Focusing on the popular medium of watercolour, Hazel travels through South Africa, Namibia, Botswana and Zimbabwe, getting to know her destinations by painting them. As the journey unfolds, she presents a series of painting projects. Composer, critic, author, and radio personality, (Joseph) Deems Taylor (1885-1966) was one of the most influential figures in American culture from the 1920s through the 1940s. A self-taught composer, the New York City native wrote such pieces as the orchestral suite Through the Looking Glass and the acclaimed operas The King's Henchman and Peter Ibbetson, the first commissions ever offered by the Metropolitan Opera. Taylor's operatic works were among the most popular and widely performed of his day, yet he achieved greatest fame and recognition as the golden-voiced intermission commentator for the New York Philharmonic radio broadcasts and as the on-screen host of Walt Disney's classic film Fantasia. With his witty, clever, charming, and informative but unpatronizing manner, he almost single-handedly introduced classical music to millions of Americans across the nation. In this first biography of Taylor, James A. Pegolotti brings to life the remarkably multi-talented man within the context of his times. The captivating portrait recounts his formative years in the Bronx, his college years at New York University, where he composed four successive varsity musicals, his journalistic career first as a writer for the New York Tribune Sunday Magazine and then as the powerful music critic for the New York World, and his musical triumphs. Pegolotti also details Taylor's stints as editor of Musical America, president of the American Society of Composers, Authors and Publishers (ASCAP), best-selling author of Of Men and Music and other books, collaborator with Disney and Leopold Stokowski on Fantasia, and even judge for the Miss America pageant. He describes how Taylor used his critic's pulpit to champion American music, opera, and musicians, and also chronicles his colorful personal life, including his third marriage at age sixty to a twenty-year-old costume designer. Enlivened with such figures as George Gershwin, Jerome Kern, F. Scott Fitzgerald, Ayn Rand, and Taylor's fellow Algonquin Round Table tastemakers, this in-depth, well-balanced, and objective biography will stand as the definitive work on the great American composer-critic. 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. 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 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 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, two-particle collisions, and the wave equation. This book explores the main features of Athenian life in the latter half of the fifth century BC, including aspects such as schooling, literacy, taxation, culture, the arts and philosophy. The contents of this edition have been extensively updated. Advances in the study of dynamical systems have revolutionized the way that classical mechanics is taught and understood. Classical Dynamics, 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 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 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 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 researchers in these fields. A solutions manual is available exclusively for instructors.

In the antebellum period, most Americans first encountered European classical music through hundreds of hymn tunes that tapped into classical melodies. This book is the first in-depth study of the rise and fall of these popular, but largely overlooked, adaptations and their place in nineteenth-century American musical life. Presents classical mechanics as a thriving field with strong connections to modern physics, with numerous worked examples and homework problems. Classical Mechanics, Second Edition presents a complete account of the classical mechanics of particles and systems for physics students at the advanced undergraduate level. The book evolved from a set of lecture notes for a course on the subject taught by the author at California State University, Stanislaus, for many years. It assumes the reader has been exposed to a course in calculus and a calculus-based general physics course. However, no prior knowledge of differential equations is required. Differential equations and new mathematical methods are developed in the text as the occasion demands. The book begins by describing fundamental concepts, such as velocity and acceleration, upon which subsequent chapters build. The second edition has been updated with two new sections added to the chapter on Hamiltonian formulations, and the chapter on

collisions and scattering has been rewritten. The book also contains three new chapters covering Newtonian gravity, the Hamilton-Jacobi theory of dynamics, and an introduction to Lagrangian and Hamiltonian formulations for continuous systems and classical fields. To help students develop more familiarity with Lagrangian and Hamiltonian formulations, these essential methods are introduced relatively early in the text. The topics discussed emphasize a modern perspective, with special note given to concepts that were instrumental in the development of modern physics, for example, the relationship between symmetries and the laws of conservation. Applications to other branches of physics are also included wherever possible. The author provides detailed mathematical manipulations, while limiting the inclusion of the more lengthy and tedious ones. Each chapter contains homework problems of varying degrees of difficulty to enhance understanding of the material in the text. This edition also contains four new appendices on D'Alembert's principle and Lagrange's equations, derivation of Hamilton's principle, Noether's theorem, and conic sections. In response to popular demand, University Science Books is delighted to announce the one and only authorized Student Solutions Manual for John R. Taylor's internationally best-selling textbook, *Classical Mechanics*. This splendid little manual, by the textbook's own author, restates the odd-numbered problems from the book and provides crystal-clear, detailed solutions. Of course, the author strongly recommends that students avoid sneaking a peek at these solutions until after attempting to solve the problems on their own! But for those who put in the effort, this manual will be an invaluable study aid to help students who take a wrong turn, who can't go any further on their own, or who simply wish to check their work. Widely-discussed in the theory of classical point charges are the difficulties of divergent self-energy, self-accelerating solutions, and pre-acceleration. This book explains the theory in the context of quantum electrodynamics, the neutral particle limit, and coherence with neighboring theories. Planned as a companion volume to *Writing Latin* by Richard Ashdowne and James Morwood, this accessible guide to writing Greek is useful for anyone starting Greek prose composition. Part 1 deals with the constituent elements of the simple sentence, and in Part 2 all major constructions are covered, each with thorough explanations and clear examples. Each chapter has either two or three exercises of practice sentences, further supplemented throughout Part 2 by passages for continuous composition. 100 important irregular verbs with their principal parts are listed at the back of the book, and there is a complete vocabulary for all the exercises, a useful learning and revision resource in itself. If something can fail, it can often fail in one of several ways and sometimes in more than one way at a time. There is always some cause of failure, and almost always, more than one possible cause. In one sense, then, survival analysis is a lost cause. The methods of Competing Risks have often been neglected in the survival analysis literature. Written by a leading statistician, *Classical Competing Risks* thoroughly examines the probability framework and statistical analysis of data of Competing Risks. The author explores both the theory of the subject and the practicalities of fitting the models to data. In a coherent, self-contained, and sequential

account, the treatment moves from the bare bones of the Competing Risks setup and the associated likelihood functions through survival analysis using hazard functions. It examines discrete failure times and the difficulties of identifiability, and concludes with an introduction to the counting-process approach and the associated martingale theory. With a dearth of modern treatments on the subject and the importance of its methods, this book fills a long-standing gap in the literature with a carefully organized exposition, real data sets, numerous examples, and clear, readable prose. If you work with lifetime data, *Classical Competing Risks* presents a modern, comprehensive overview of the methodology and theory you need.

Music in the Classical World: Genre, Culture, and History provides a broad sociocultural and historical perspective of the music of the Classical Period as it relates to the world in which it was created. It establishes a background on the time span—1725 to 1815—offering a context for the music made during one of the more vibrant periods of achievement in history. Outlining how music interacted with society, politics, and the arts of that time, this kaleidoscopic approach presents an overview of how the various genres expanded during the period, not just in the major musical centers but around the globe. Contemporaneous treatises and commentary documenting these changes are integrated into the narrative. Features include the following: A complete course with musical scores on the companion website, plus links to recordings—and no need to purchase a separate anthology The development of style and genres within a broader historical framework Extensive musical examples from a wide range of composers, considered in context of the genre A thorough collection of illustrations, iconography, and art relevant to the music of the age Source documents translated by the author Valuable student learning aids throughout, including a timeline, a register of people and dates, sidebars of political importance, and a selected reading list arranged by chapter and topic A companion website featuring scores of all music discussed in the text, recordings of most musical examples, and tips for listening

Music in the Classical World: Genre, Culture, and History tells the story of classical music through eighteenth-century eyes, exposing readers to the wealth of music and musical styles of the time and providing a glimpse into that vibrant and active world of the Classical Period.

Classical Mechanics is intended for students who have studied some mechanics in an introductory physics course. With unusual clarity, the book covers most of the topics normally found in books at this level. This textbook takes a broad yet thorough approach to mechanics, aimed at bridging the gap between classical analytic and modern differential geometric approaches to the subject. Developed by the authors from over 30 years of teaching experience, the presentation is designed to give students an overview of the many different models used through the history of the field—from Newton to Hamilton—while also painting a clear picture of the most modern developments. The text is organized into two parts. The first focuses on developing the mathematical framework of linear algebra and differential geometry necessary for the remainder of the book. Topics covered include tensor algebra, Euclidean and symplectic vector spaces, differential manifolds, and absolute differential calculus. The second part of the book applies these

topics to kinematics, rigid body dynamics, Lagrangian and Hamiltonian dynamics, Hamilton-Jacobi theory, completely integrable systems, statistical mechanics of equilibrium, and impulsive dynamics, among others. This new edition has been completely revised and updated and now includes almost 200 exercises, as well as new chapters on celestial mechanics, one-dimensional continuous systems, and variational calculus with applications. Several Mathematica® notebooks are available to download that will further aid students in their understanding of some of the more difficult material. Unique in its scope of coverage and method of approach, Classical Mechanics with Mathematica® will be useful resource for graduate students and advanced undergraduates in applied mathematics and physics who hope to gain a deeper understanding of mechanics. It has often been thought that participation in fertility rituals was women's most important religious activity in classical Greece. Matthew Dillon's wide-ranging study makes it clear that women engaged in numerous other rites and cults, and that their role in Greek religion was actually more important than that of men. Women invoked the gods' help in becoming pregnant, venerated the god of wine, worshipped new and exotic deities, used magic for both erotic and pain-relieving purposes, and far more besides. Clear and comprehensive, this volume challenges many stereotypes of Greek women and offers unexpected insights into their experience of religion. With more than fifty illustrations, and translated extracts from contemporary texts, this is an essential resource for the study of women and religion in classical Greece. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9781891389221 .

Understanding the Classical Music Profession is an essential resource for educators, practitioners and researchers who seek to understand the careers of classically-trained musicians, and the extent to which professional practice is reflected within existing classical performance-based music education and training. Taking Australia as a case-study, Dawn Bennett outlines how Australia is now a service economy, and an important component of service provision is in the culture and recreation industries. Despite this, employment in culture and recreation is poorly understood and a lack of cultural intelligence contributes to a less than satisfactory environment that inhibits the creative potential of cultural practitioners. Musicians in the twenty-first century require a broad and evolving base of skills and knowledge to sustain their careers as cultural practitioners. Bennett maintains that a musician cannot be simply defined as a performer, but that a musician is someone who works within the profession of music in one or more specialist fields. The perception of a musician as a multi-skilled professional working within a portfolio career has significant implications for policy, funding, education and training, and for practitioners and students seeking to achieve sustainable careers. This indispensable book provides a comprehensive analysis of life as a musician, from education and training to professional practice as well as revealing the structure of the Australian cultural

industries. Although Australia is the focus of the book, the basis of the research originates from many different places and most of the issues discussed relate directly to other countries throughout the world. *Recording the Classical Guitar* charts the evolution of classical guitar recording practice from the early twentieth century to the present day, encompassing the careers of many of the instrument's most influential practitioners from acoustic era to the advent of the CD. A key focus is on the ways in which guitarists' recorded repertoire programmes have shaped the identity of the instrument, particularly where national allegiances and musical aesthetics are concerned. The book also considers the ways in which changing approaches to recording practice have conditioned guitarists' conceptions of the instrument's ideal representation in recorded form and situates these in relation to the development of classical music recording aesthetics more generally. An important addition to the growing body of literature in the field of phonomusicology, the book will be of interest to guitarists and producers as well as students of record production and historians of classical music recording. The materials in this collection are drawn from many disciplines, including economics, law, philosophy and political science. Yet they are all directed to a topic that is worthy of examination from multiple perspectives: "Liberty, Property and the Law." Stated in this general form, this topic is as broad as law itself. The relationship of liberty and property to the law surfaces whenever and wherever people interact with each other under the command and control of the sovereign. Those who hold sovereign power may choose to protect liberty and property or to undermine it. But the regrettably high frequency of political abuse throughout the world does not justify the exercise of arbitrary legal power; nor does it limit human aspirations for a sound legal and social order to block political excesses. First Published in 2000. Routledge is an imprint of Taylor & Francis, an informa company. Planned as a companion volume to *Writing Latin* by Richard Ashdowne and James Morwood, this accessible guide to writing Greek is useful for anyone starting Greek prose composition. Part 1 deals with the constituent elements of the simple sentence, and in Part 2 all major constructions are covered, each with thorough explanations and clear examples. Each chapter has either two or three exercises of practice sentences, further supplemented throughout Part 2 by passages for continuous composition. 100 important irregular verbs with their principal parts are listed at the back of the book, and there is a complete vocabulary for all the exercises, a useful learning and revision resource in itself. Looks at story-patterns and themes which Greek and Latin literature share with the Hebrew scriptures and the New Testament. This work considers the subject from the classical side: Homer, the Greek tragedians, Plato, and Virgil. It also focuses on the New Testament, and on the aspects of later reception. *Classical Mechanics: A Computational Approach with Examples using Python and Mathematica* provides a unique, contemporary introduction to classical mechanics, with a focus on computational methods. In addition to providing clear and thorough coverage of key topics, this textbook includes integrated instructions and treatments of computation. Full of pedagogy, it contains both analytical and computational example problems within the

body of each chapter. The example problems teach readers both analytical methods and how to use computer algebra systems and computer programming to solve problems in classical mechanics. End-of-chapter problems allow students to hone their skills in problem solving with and without the use of a computer. The methods presented in this book can then be used by students when solving problems in other fields both within and outside of physics. It is an ideal textbook for undergraduate students in physics, mathematics, and engineering studying classical mechanics.

Features: Gives readers the "big picture" of classical mechanics and the importance of computation in the solution of problems in physics Numerous example problems using both analytical and computational methods, as well as explanations as to how and why specific techniques were used Online resources containing specific example codes to help students learn computational methods and write their own algorithms A solutions manual is available via the Routledge Instructor Hub and extra code is available via the Support Material tab Evolution of the concepts of atom and atomism, and the impact of electromagnetism on our worldview, is the object of our study in this book.

Electromagnetism is the key link in the transition from classical to post-classical worldview. This transition is caused by the one from our thought based upon the tangibles to that based upon the intangibles. Electromagnetism inaugurated an era of light speeds and near it, and of the world constituted by such speeds. Philosophy and the worldview need to catch up and undergo a basic change. Atom as a concept and reality is under severe stress as explanation of reality. Reality has come out of atomic limits and unveiled a new world, which is constituted of quantum, relativity, wave/particle duality, etc. It is a challenge to philosophy, which re-fashioning to interpret the post-classical world based on rapid motions. We need to develop new concepts and bring about a realignment in various thought constituents. Rather than 'overthrow' matter, we are delving deeper into it. Philosophy and human thought itself stands on the brink of redefinition. In the present book the author shows how electromagnetism connects classical with post-classical thought, creating new structures, and impacting materialism and dialectics. Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. Problems after each chapter

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