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Physics **The Essential Tension**

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University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. Volume 2 covers thermodynamics, electricity and magnetism, and Volume 3 covers optics and modern physics. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result. The text and images in this textbook are grayscale. University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science

educators dedicated to the project. VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site. Essential resources do more than satisfy people's needs. They ensure a dignified existence. Since the competition for essential resources, particularly fresh water and arable land, is increasing and standard legal institutions, such as property rights and national border controls, are strangling access to resources

for some while delivering prosperity to others, many are searching for ways to ensure their fair distribution. This book argues that the division of essential resources ought to be governed by a combination of Voice and Reflexivity. Voice is the ability of social groups to choose the rules by which they are governed. Reflexivity is the opportunity to question one's own preferences in light of competing claims and to accommodate them in a collective learning process. Having investigated the allocation of essential resources in places as varied as Cambodia, China, India, Kenya, Laos, Morocco, Nepal, the arid American West, and peri-urban areas in West Africa, the contributors to this volume largely concur with the viability of this policy and normative framework. Drawing on their expertise in law, environmental studies, anthropology, history, political science, and economics, they weigh the potential of Voice and Reflexivity against such alternatives as pricing mechanisms, property rights, common resource management, political might, or brute force.

"Twenty-seven contributors--artists, cultural professionals, scholars, a journalist, grantmakers--were asked this question: 'Are the arts essential?' In response, they offer deep and challenging answers applying the lenses of the arts, and those of the sciences, the humanities, public policy, and philanthropy. Playing so many parts, situated in so many places, these writers illustrate the ubiquity of the arts and culture in the United States. They draw from the performing arts and the visual arts, from poetry and literature, and from culture in our everyday lived experiences. The arts, they remind readers, are everywhere, and--in one way and another--touch everyone"-- This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Richard Wolfson's Essential University Physics, Second Edition is a concise and progressive calculus-based physics textbook that offers clear writing, great problems, and relevant real-life applications. This text is a compelling and affordable alternative for

professors who want to focus on the fundamentals and bring physics to life for their students. Essential University Physics focuses on the fundamentals of physics, teaches sound problem-solving skills, emphasizes conceptual understanding, and makes connections to the real world. The presentation is concise without sacrificing a solid introduction to calculus-based physics. New pedagogical elements have been introduced that incorporate proven results from physics education research. Features such as annotated figures and step-by-step problem-solving strategies help students master concepts and solve problems with confidence. The Second Edition features dramatically revised and updated end-of-chapter problem sets, significant content updates, new Conceptual Examples, and additional Applications, all of which serve to foster student understanding and interest. As English gains prominence as the language of higher education across the world, many institutions and lecturers are becoming increasingly concerned with the implications of this trend for the quality of university teaching and learning. With an innovative approach in both theme and scope, this book addresses four major competencies that are essential to ensure the effectiveness of English-medium higher education: creativity, critical thinking, autonomy and motivation. It offers an integrated perspective, both theoretical and practical, which defines these competences from different angles within ELT and Applied Linguistics, while also exploring their points of contact and applications to classroom routines. This approach is intended to provide practical guidance and inspiration, in the form of pedagogical proposals, examples of teaching practice and cutting-edge research by scholars and university teachers from all over the world. To that end, a leading specialist in the field introduces each of the four competencies, explaining concepts accessibly and synthetically, exposing false myths, presenting an updated state of the art, and opening windows for future studies. These introductions are followed by practitioner chapters

written by teachers and scholars from different cultures and university contexts, who reflect on their experience and/or research and share effective procedures and suggestions for the university class with English as a vehicle for instruction. *Essential Actions for Academic Writers* is a writing textbook for all novice academic students, undergraduate or graduate, to help them understand how to write effectively throughout their academic and professional careers. While these novice writers may use English as a second or additional language, this book is also intended for students who have done little writing in their prior education or who are not yet confident in their academic writing. *Essential Actions* combines genre research, proven pedagogical practices, and short readings to help students develop their rhetorical flexibility by exploring and practicing the key actions that will appear in academic assignments, such as explaining, summarizing, synthesizing, and arguing. Part I introduces students to rhetorical situation, genre, register, source use, and a framework for understanding how to approach any new writing task. The genre approach recognizes that all writing responds to a context that includes the writer's identity, the reader's expectations, the purpose of the text, and the conventions that shape it. Part II explores each essential action and provides examples of the genres and language that support it. Part III leads students in combining the actions in different genres and contexts, culminating in the project of writing a personal statement for a university or scholarship application. This solutions manual contains detailed solutions to all of the odd-numbered end-of-chapter problems from the textbook, all written in the IDEA problem-solving framework. ". . . a first-rate edition, which supersedes all other portable Peirces. . . all the Peirce most people will ever need." —Louis Menand, *The New York Review of Books* "The *Monist* essays are included in the first volume of the compact and welcome *Essential Peirce*; they are by Peirce's standards quite accessible and splendid in their cosmic scope and

assertiveness." —London Review of Books A convenient two-volume reader's edition makes accessible to students and scholars the most important philosophical papers of the brilliant American thinker Charles Sanders Peirce. This first volume presents twenty-five key texts from the first quarter century of his writing, with a clear introduction and informative headnotes. Volume 2 will highlight the development of Peirce's system of signs and his mature pragmatism.

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME II
Unit 1: Thermodynamics Chapter 1: Temperature and Heat Chapter 2: The Kinetic Theory of Gases
Chapter 3: The First Law of Thermodynamics Chapter 4: The Second Law of Thermodynamics Unit

2: Electricity and Magnetism Chapter 5: Electric Charges and Fields Chapter 6: Gauss's Law Chapter 7: Electric Potential Chapter 8: Capacitance Chapter 9: Current and Resistance Chapter 10: Direct-Current Circuits Chapter 11: Magnetic Forces and Fields Chapter 12: Sources of Magnetic Fields Chapter 13: Electromagnetic Induction Chapter 14: Inductance Chapter 15: Alternating-Current Circuits Chapter 16: Electromagnetic Waves

Interested in the Genetic Algorithm? Simulated Annealing? Ant Colony Optimization? Essentials of Metaheuristics covers these and other metaheuristics algorithms, and is intended for undergraduate students, programmers, and non-experts. The book covers a wide range of algorithms, representations, selection and modification operators, and related topics, and includes 71 figures and 135 algorithms great and small. Algorithms include: Gradient Ascent techniques, Hill-Climbing variants, Simulated Annealing, Tabu Search variants, Iterated Local Search, Evolution Strategies, the Genetic Algorithm, the Steady-State Genetic Algorithm, Differential Evolution, Particle Swarm Optimization, Genetic Programming variants, One- and Two-Population Competitive Coevolution, N-Population Cooperative Coevolution, Implicit Fitness Sharing, Deterministic Crowding, NSGA-II, SPEA2, GRASP, Ant Colony Optimization variants, Guided Local Search, LEM, PBIL, UMDA, cGA, BOA, SAMUEL, ZCS, XCS, and XCSF.

A major publishing event, the collected writings of the groundbreaking scholar who "first coined intersectionality as a political framework" (Salon) For more than twenty years, scholars, activists, educators, and lawyers--inside and outside of the United States--have employed the concept of intersectionality both to describe problems of inequality and to fashion concrete solutions. In particular, as the Washington Post reported recently, "the term has been used by social activists as both a rallying cry for more expansive progressive movements and a chastisement for their limitations." Drawing on black feminist and critical legal theory, Kimberlé Crenshaw developed the

concept of intersectionality, a term she coined to speak to the multiple social forces, social identities, and ideological instruments through which power and disadvantage are expressed and legitimized. In this comprehensive and accessible introduction to Crenshaw's work, readers will find key essays and articles that have defined the concept of intersectionality, collected together for the first time. The book includes a sweeping new introduction by Crenshaw as well as prefaces that contextualize each of the chapters. For anyone interested in movement politics and advocacy, or in racial justice and gender equity, *On Intersectionality* will be compulsory reading from one of the most brilliant theorists of our time. *Essential Ornithology* provides the reader with a concise but comprehensive introduction to the biology of birds, one of the most widely studied taxonomic groups. The book begins by considering the dinosaur origins of birds and their subsequent evolution. Development, anatomy, and physiology are then discussed followed by chapters devoted to avian reproduction, migration, ecology, and conservation. Sections dealing with aspects of bird/human relationships and bird conservation give the book an applied context. This new edition has been thoroughly updated, providing new information from rapidly-developing fields including the avian fossil record, urban and agricultural ecology, responses to climate change, invasive species biology, technologies to track movement, avian disease, and the role of citizen scientists. There is also a greater focus on North American ornithology. Drawing extensively upon the wider scientific literature, this engaging text places the results of classical studies of avian biology alongside the most recent scientific breakthroughs. Useful case studies are presented in a concise and engaging style with the student reader foremost in mind. Key points are highlighted and suggestions for guided reading and key references are included throughout. *Essential Ornithology* is a companion textbook for advanced undergraduate and graduate students taking courses in avian science, as well as a useful reference

for professional researchers and consultants. Amateur ornithologists will also find this book offers a scientifically rigorous and accessible overview for a more general readership. Lecturers, why waste time waiting for the post to arrive? Request your e-inspection copy today! 'Brilliant little book! ... It's easy to follow and understand, full of practical hints and tips, helps to remove some of the pressures of uni life!' - Amazon review 'Really useful sections on reading and taking notes ... the bread and butter of student life.' - Amazon review Do you want to do better at university? Whether you're a student wanting to improve their study skills or a lecturer who wants to give their students a helping hand with their work, this book is for you. Packed with study tips and handy activities, this proven guide shows you step-by-step how to study effectively and make the best of your time - whatever level you're at. Whether you are going to university straight from school, a mature student, or an overseas student studying in the UK for the first time, you'll find out how to: Sail through those tricky first weeks Get the most out of lectures by understanding how you learn Learn techniques for academic writing and research Pass exams with flying colours Stay cool and cope with stress. Practical and interactive, this edition features six brand new chapters to arm you with even more essential skills including how to produce a dissertation, planning your career and focusing on building relationships with lecturers and other students to help you get ahead. Visit the Essential Study Skills Companion Website Launched with this edition is an improved and expanded companion website. Don't miss the extensive range of guidance and resources for both students and tutors, including video tips, study packs, practice exercises and other tools for you to use in both your preparation and actual work. SAGE Study Skills are essential study guides for students of all levels. From how to write great essays and succeeding at university, to writing your undergraduate dissertation and doing postgraduate research, SAGE Study Skills help you get the best from your

time at university. For two- and three-semester university physics courses Richard Wolfson's Essential University Physics, 3rd Edition is a concise and progressive calculus-based physics textbook that offers clear writing, great problems, and relevant real-life applications in an affordable and streamlined text. Essential University Physics teaches sound problem-solving skills, emphasises conceptual understanding, and makes connections to the real world. Features such as annotated figures and step-by-step problem-solving strategies help students master concepts and solve problems with confidence. Essential University Physics is offered as two paperback volumes available together or for sale individually. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. This open access textbook takes the reader step-by-step through the concepts of mechanics in a clear and detailed manner. Mechanics is considered to be the core of physics, where a deep understanding of the concepts is essential in understanding all branches of physics. Many proofs and examples are included to help the reader grasp the fundamentals fully, paving the way to deal with more advanced topics. After solving all of the examples, the reader will have gained a solid foundation in mechanics and the skills to apply the concepts in a variety of situations. The book is useful for undergraduate students majoring in physics and other science and engineering disciplines. It can also be used as a reference for more advanced levels. Searchable electronic version of print product with fully hyperlinked cross-references. Essential College Physics

Volume I provides students with an approachable and innovative introduction to key concepts in physics. Throughout the text, students enjoy clear and concise explanations, relevant real-world examples, and problems that help them master physics fundamentals. Following the introductory Chapter 1, the remainder of Volume I is devoted to mechanics of particles and systems. It includes separate chapters on gravitation, fluids, and waves, including sound. The text concludes with a three-chapter sequence on thermodynamics. Each chapter features annotated figures and detailed problem-solving strategies to help students learn and retain the material with confidence. The second edition includes a new four-color format, with color coding of pedagogical features to call greater attention to each. Additionally, new applications have been added to make select topics more current and engaging, both throughout the text and, when possible, within problem sets. Essential College Physics Volume I is part of a two-volume set. It can be used independently or in tandem with Volume II. When combined, the two texts cover a full-year course in algebra-based physics, divided either into two semesters or three quarters. Delivers a clear and concise exposition of key topics in statistical physics, accompanied by detailed derivations and practice problems. The third edition of this popular and effective textbook provides in one volume a unified treatment of topics essential for first year university students studying for degrees in mathematics. Students of computer science, physics and statistics will also find this book a helpful guide to all the basic mathematics they require. It clearly and comprehensively covers much of the material that other textbooks tend to assume, assisting students in the transition to university-level mathematics. Expertly revised and updated, the chapters cover topics such as number systems, set and functions, differential calculus, matrices and integral calculus. Worked examples are provided and chapters conclude with exercises to which answers are given. For students seeking further challenges, problems intersperse the text,

for which complete solutions are provided. Modifications in this third edition include a more informal approach to sequence limits and an increase in the number of worked examples, exercises and problems. The third edition of Fundamentals of university mathematics is an essential reference for first year university students in mathematics and related disciplines. It will also be of interest to professionals seeking a useful guide to mathematics at this level and capable pre-university students. One volume, unified treatment of essential topics Clearly and comprehensively covers material beyond standard textbooks Worked examples, challenges and exercises throughout New material featured in this edition includes updates and replacements of older data sets, a broader range of disciplines represented in models and examples, a discussion of discourse analysis, and tips for Internet communication. A less-expensive grayscale paperback version is available. Search for ISBN 9781680923018. Business Law I Essentials is a brief introductory textbook designed to meet the scope and sequence requirements of courses on Business Law or the Legal Environment of Business. The concepts are presented in a streamlined manner, and cover the key concepts necessary to establish a strong foundation in the subject. The textbook follows a traditional approach to the study of business law. Each chapter contains learning objectives, explanatory narrative and concepts, references for further reading, and end-of-chapter questions. Business Law I Essentials may need to be supplemented with additional content, cases, or related materials, and is offered as a foundational resource that focuses on the baseline concepts, issues, and approaches. A stirring new portrait of one of the most important black leaders of the twentieth century introduces readers to the fiery woman who inspired generations of activists. (Social Science) Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful

gateway to the understanding of glycans. Isaac is a Department for Education project at the University of Cambridge that develops understanding and confidence through problem solving in the physical sciences, by combining accessible and concise print resources with a state of the art online study tool. This book is a co-publication between Periphyseos Press/Isaac and Cambridge University Press. ESSENTIAL GCSE PHYSICS helps you master the concepts of physics in senior-school level courses (including GCSE, IGCSE and the US High School Diploma). Use the exercises to practise applying fundamental principles of physics to a range of situations, beginning with manipulating the essential equations. Notes, examples and guidance are given and the origins of all formulae are clearly explained. All problems can be answered on the Isaac online platform. Registration is free and gives both students and teachers personalised support through a sophisticated online marking system for all problems and a section-by-section archive of video lessons. For many observers, the European Union is mired in a deep crisis. Between sluggish growth; political turmoil following a decade of austerity politics; Brexit; and the rise of Asian influence, the EU is seen as a declining power on the world stage. Columbia Law professor Anu Bradford argues the opposite in her important new book *The Brussels Effect*: the EU remains an influential superpower that shapes the world in its image. By promulgating regulations that shape the international business environment, elevating standards worldwide, and leading to a notable Europeanization of many important aspects of global commerce, the EU has managed to shape policy in areas such as data privacy, consumer health and safety, environmental protection, antitrust, and online hate speech. And in contrast to how superpowers wield their global influence, the Brussels Effect - a phrase first coined by Bradford in 2012- absolves the EU from playing a direct role in imposing standards, as market forces alone are often sufficient as multinational companies voluntarily extend the EU rule to govern their global

operations. The Brussels Effect shows how the EU has acquired such power, why multinational companies use EU standards as global standards, and why the EU's role as the world's regulator is likely to outlive its gradual economic decline, extending the EU's influence long into the future.

Praise for Volume 1: ". . . a first-rate edition, which supersedes all other portable Peirces. . . all the Peirce most people will ever need." —Louis Menand, *The New York Review of Books* Volume 2 of this convenient two-volume chronological reader's edition provides the first comprehensive anthology of the brilliant American thinker Charles Sanders Peirce's mature philosophy. A central focus of Volume 2 is Peirce's evolving theory of signs and its application to his pragmatism. This solutions manual contains detailed solutions to all of the odd-numbered end-of-chapter problems from the textbook, all written in the IDEA problem-solving framework. The new edition of this popular textbook remains a clear and practical introduction to epidemiology for students in all areas of health. By emphasising the role of epidemiology across a broad range of health monitoring and research, it gives students an understanding of the fundamental principles common to all areas of epidemiology. It also integrates the study of infectious and chronic diseases as well as public health and clinical epidemiology. Avoiding complex mathematics, it steps through the methods and potential problems underlying health data and reports, while maintaining a balance of rigour and clarity. The nuts-and-bolts of epidemiology are embedded in the wider international health perspective through recent and classical examples across different areas of health to engage students from a range of backgrounds. Concepts are illustrated with charts and graphs, and end-of-chapter questions test understanding (with answers provided). Online resources include further exercises, slides for teaching and useful weblinks. *Essential College Physics Volume II* effectively introduces students to critical concepts in physics in an approachable and innovative way.

Throughout the text, students enjoy clear and concise explanations, relevant real-world examples, and problems that help them master physics fundamentals. The text begins with six chapters on electricity and magnetism, culminating with a concluding chapter on electromagnetic waves and relativity. Following this are two chapters on optics - one on geometrical optics and another on wave optics. The final four chapters cover modern physics, including quanta, atoms, nuclei, and elementary particles. Each chapter features annotated figures and detailed problem-solving strategies to help students learn and retain the material with confidence. The second edition includes a new four-color format, with color coding of pedagogical features to call greater attention to each. Additionally, new applications have been added to make select topics more current and engaging, both throughout the text and, when possible, within problem sets. Essential College Physics Volume II is part of a two-volume set. It can be used independently or in tandem with Volume I. When combined, the two texts cover a full-year course in algebra-based physics, divided either into two semesters or three quarters. Isaac is a Department for Education project at the University of Cambridge that develops understanding and confidence through problem solving in the physical sciences, by combining accessible and concise print resources with a state of the art online study tool. This book is a co-publication between Periphyseos Press/Isaac and Cambridge University Press. 2 books in 1: ESSENTIAL PRE-UNIVERSITY PHYSICS helps you master the concepts of physics in pre-university courses (including A Level, IAL, IB and the AICE Diploma). Use the skill sheets to practise applying fundamental principles of physics to a range of situations, beginning with manipulating the essential equations. DEVELOPING PROBLEM-SOLVING SKILLS builds the problem solving fluency needed for physics and engineering at university. All problems can be answered on the Isaac online platform. Registration is free and gives both students and teachers

personalised support through a sophisticated online marking system for all problems and a section-by-section archive of video lessons. Brief Description: The goal of Essential College Physics is to provide a book focused on essential principles--a shorter, more focused book that better addresses the learning needs of today's readers while more effectively guiding them through the mastery of physics. Brevity does not need to come at the expense of reader learning. This book is designed from the ground up to be concise and focused, resulting in a book less intimidating and easier to use, with well-coordinated explanations, art, worked examples, and end-of-chapter problems. It incorporates an overarching connected approach: connecting ideas within and across chapters; connecting physics with the real world; connecting words and math; and connecting with how today's readers learn and how they use their book. In addition to providing a strong foundation that teaches physics principles, the book also focuses on building readers' problem-solving skills. The friendly, integrated approach, combined with the low price, makes Essential College Physics an invaluable book choice. Key Topics: Measurements in Physics, Motion in One Dimension, Motion in Two Dimensions, Force and Newton's Laws of Motion, Work and Energy, Momentum and Collisions, Oscillations, Rotational Motion, Gravitation, Solids and Fluids, Waves and Sound, Temperature, Thermal Expansion, and Ideal Gases, Heat, The Laws of Thermodynamics, Electric Charges, Forces, and Fields, Electric Energy, Potential, and Capacitors, Electric Current, Resistance, and Circuits, Magnetic Fields and Forces, Electromagnetic Induction and AC Circuits, Electromagnetic Waves and Special Relativity, Geometrical Optics, Wave Optics, Early Modern Physics, Atomic Physics, Nuclear Physics, Elementary Particles Market: Intended for those interested in learning the basics of college physics

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