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University Physics University Physics University Physics Fundamentals of Mechanics University Physics Quantum Physics Physics Textbook of Applied Physics Essential Physics College Physics Volume 2 An Introduction to Plasma Physics and Its Space Applications, Volume 1 Refresher Course in B.Sc.Physics (Vol . II) Women and Physics Sex and Quantum Physics Volume 1 Physics. PHYSICS, VOLUME 1, 5TH ED College Physics Essential University Physics College Physics Essential University Physics (Volume 1) Physics College Physics, Volume 1 Statistical Physics The Physics of Laser Plasmas and Applications - Volume 1 Physics for Scientists and Engineers, Volume 1 College Physics Volume 1 (Chapters 1-16) Physics of Shock and Impact Lectures On Computation Theoretical Physics 1 Elements of Modern Physics University Physics Physics 1 Essential Classical Mechanics for Device Physics Field Theory in Particle Physics Group Theory in Physics Exploring physics with computer animation and PhysGL Essential University Physics, Volume 1, Global Edition Fundamental Formulas of Physics, Volume One Essential University Physics Physics of Shock and Impact, Volume 1

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Richard Wolfson's text focuses on the fundamentals of physics, teaches sound problem-solving skills, emphasises conceptual understanding and makes connections with the real world. Tips offer explanatory or cautionary notes for typical misconceptions and identify the connections between new and old topics. What kind of sense can we make out of living in a world that has both sex and quantum physics? Because, in fact, there is no question that we live in a world that has both. Both the messiness of daily life with all its desires, emotions, thoughts and uncertainties, and also the elegant mathematical models of strange attractors, quantum foam, and multiple dimensions. Sex and Quantum Physics Volume 1: Tantic Yogi Tells All is a story about almost everything. Romp with a tantric yogi's whimsical cartoons through the body, mind, and sexual circuits of humans. Explore dark energy, evolution, pain, pleasure and why it feels so good to evolve with the universe. Tantric Yogi Tells All is an old/new paradigm, an old/new way of thinking about our selves and how we live in the world. Simply written, with 24 exercises and over 300 illustrations, Volume 1 is a practical course on beginners tantra yoga exercises, exercises that not only immediately reduce stress and pain, but improve muscle tone while evolving our energy and our awareness. Drawing together ancient traditions, yoga body awareness, and the latest discoveries of science, Sex and Quantum Physics Volume 1 offers tools for a richer evolution of everything in your life (yes, even sex!). "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. 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."--Open Textbook Library. COLLEGE PHYSICS: REASONING AND RELATIONSHIPS motivates student understanding by emphasizing the relationship between major physics principles, and how to apply the reasoning of physics to real-world examples. Such examples come naturally from the life sciences, and this text ensures that students develop a strong understanding of how the concepts relate to each other and to the real world. COLLEGE PHYSICS: REASONING AND RELATIONSHIPS motivates student learning with its use of these original applications drawn from the life sciences and familiar everyday scenarios, and prepares students for the rigors of the course with a consistent five-step problem-solving approach. Available with this Second Edition, the new Enhanced WebAssign program features ALL the quantitative end-of-chapter problems and a rich collection of Reasoning and Relationships tutorials, personally adapted for WebAssign by Nick Giordano. This provides exceptional continuity for your students whether they choose to study with the printed text or by completing online homework. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. 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. The series of books discusses the physics of laser and matter interaction, fluid dynamics of high-temperature and high-density compressible plasma, and kinetic phenomena and particle dynamics in laser-produced plasma. The book (Vol.1) gives the physics of intense-laser absorption in matter and/or plasma in non-relativistic and relativistic laser-intensity regime. In many cases, it is explained with clear images of physics so that an intuitive understanding of individual physics is possible for non-specialists. For intense-laser of 10¹³-16 W/cm², the laser energy is mainly absorbed via collisional process, where the oscillation energy is converted to thermal energy by non-adiabatic Coulomb collision with the ions. Collisionless interactions with the collective modes in plasma are also described. The main topics are the interaction of ultra-intense laser and plasma for the intensity near and over 10¹⁸W/cm². In such regime, relativistic dynamics become essential. A new physics appears due to the relativistic effects, such as mass correction, relativistic nonlinear force, chaos physics of particle motions, and so on. The book provides clearly the theoretical base for challenging the laser-plasma interaction physics in the wide range of power lasers. It is suitable as a textbook for upper-undergraduate and graduate students as well as for readers who want to understand the whole physics structure about what happen when an intense-laser irradiates any materials including solids, gas etc. Explaining the physics intuitively without complicated mathematics, it is also a valuable resource for engineering students and researchers as well as for self-study. "Field Theory in Particle Physics" is an introduction to the use of relativistic field theory in particle physics. The authors explain the principal concepts of perturbative field theory and demonstrate their application in practical situations. The material presented in this book has been tested extensively in courses and the book is written in a lucid and engaging style. Many interesting problems are included at the end of each chapter, both to test the understanding of the subject matter and to further amplify the ideas in the text. The authors have

taken great care to make their presentation as self-contained as possible by adding several appendices. "Kip Thorne and Roger Blandford's monumental Modern Classical Physics is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject. Statistical Physics is an essential introduction that is different from others on the subject because of its unique approach, which is coordinate-independent and geometric; embraces and elucidates the close quantum-classical connection and the relativistic and Newtonian domains; and demonstrates the power of statistical techniques--particularly statistical mechanics--by presenting applications not only to the usual kinds of things, such as gases, liquids, solids, and magnetic materials, but also to a much wider range of phenomena, including black holes, the universe, information and communication, and signal processing amid noise. Includes many exercise problems Features color figures, suggestions for further reading, extensive cross-references, and a detailed index Optional "Track 2" sections make this an ideal book for a one-quarter, half-semester, or full-semester course An online illustration package is available to professors The five volumes, which are available individually as paperbacks and ebooks, are Statistical Physics; Optics; Elasticity and Fluid Dynamics; Plasma Physics; and Relativity and Cosmology." --Amazon.com. 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 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. Der Grundkurs Theoretische Physik deckt in sieben Bänden alle für Diplom- und Bachelor/Master-Studiengänge maßgeblichen Gebiete ab. Jeder Band vermittelt das im jeweiligen Semester nötige theoretisch-physikalische Rüstzeug. Übungsaufgaben mit ausführlichen Lösungen dienen der Vertiefung des Stoffs. Band 1 behandelt die klassische Mechanik. Vorausgesetzt wird nur die übliche Schulmathematik, andere mathematische Hilfsmittel werden zu Beginn ausführlich erläutert. Die zweifarbige gestaltete Neuauflage wurde grundlegend überarbeitet und ergänzt. Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given by The growing number of scientific and technological applications of plasma physics in the field of Aerospace Engineering requires that graduate students and professionals understand their principles. This introductory book is the expanded version of class notes of lectures I taught for several years to students of Aerospace Engineering and Physics. It is intended as a reading guide, addressed to students and non-specialists to tackle later with more advanced texts. To make the subject more accessible the book does not follow the usual organization of standard textbooks in this field and is divided in two parts. The first introduces the basic kinetic theory (molecular collisions, mean free path, etc.) of neutral gases in equilibrium in connection to the undergraduate physics courses. The basic properties of ionized gases and plasmas (Debye length, plasma frequencies, etc.) are addressed in relation to their equilibrium states and the collisional processes at the microscopic level. The physical description of short and long-range (Coulomb) collisions and the more relevant collisions (elementary processes) between electrons' ions and neutral atoms or molecules are discussed. The second part introduces the physical description of plasmas as a statistical system of interacting particles introducing advanced concepts of kinetic theory, (non-equilibrium distribution functions, Boltzmann collision operator, etc). The fluid transport equations for plasmas of electron ions and neutral atoms and the hydrodynamic models of interest in space science and plasma technology are derived. The plasma production in the laboratory in the context of the physics of electric breakdown is also discussed. Finally, among the myriad of aerospace applications of plasma physics, the low pressure microwave electron multipactor breakdown and plasma thrusters for space propulsion are presented in two separate chapters. Volume 1. Chapters 1-15 -- volume 2. Chapters 16-28 Volume 1 of COLLEGE PHYSICS, 11th Edition, is comprised of the first 14 chapters of Serway/Vuille's proven textbook. Designed throughout to help students master physical concepts, improve their problem-solving skills, and enrich their understanding of the world around them, the text's logical presentation of physical concepts, a consistent strategy for solving problems, and an unparalleled array of worked examples help students develop a true understanding of physics. Volume 1 is enhanced by a streamlined presentation, new problems, Interactive Video Vignettes, new conceptual questions, new techniques, and hundreds of new and revised problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This two-volume set can be naturally divided into two semester courses, and contains a full modern graduate course in quantum physics. The idea is to teach graduate students how to practically use quantum physics and theory, presenting the fundamental knowledge, and gradually moving on to applications, including atomic, nuclear and solid state physics, as well as modern subfields, such as quantum chaos and quantum entanglement. The book starts with basic quantum problems, which do not require full quantum formalism but allow the student to gain the necessary experience and elements of quantum thinking. Only then does the fundamental Schrodinger equation appear. The author has included topics that are not usually covered in standard textbooks and has written the book in such a way that every topic contains varying layers of difficulty, so that the instructor can decide where to stop. Although supplementary sources are not required, "Further reading" is given for each chapter, including references to scientific journals and publications, and a glossary is also provided. Problems and solutions are integrated throughout the text. The publication of the first edition of Physics in 1960 launched the modern era of physics textbooks. It was a new paradigm then and, after 40 years, it continues to be the dominant model for all texts. The big change in the market has been a shift to a lower level, more accessible version of the model. Fundamentals of Physics is a good example of this shift. In spite of this change, there continues to be a demand for the original version and, indeed, we are seeing a renewed interest in Physics as demographic changes have led to greater numbers of well-prepared students entering university. Physics is the only book available for academics looking to teach a more demanding course. This book is volume 2 of the two-volume Essential Physics series, covering electricity and magnetism, DC circuits, waves and optics, and giving a brief introduction to modern physics. The book is aimed at the second half of a typical algebra-based introductory physics sequence, such as that taken by life science and pre-medical students. This book, an abridgment of Volumes I and II of the highly respected Group Theory in Physics, presents a carefully constructed introduction to group theory and its applications in physics. The book provides an introduction to and description of the most important basic ideas and the role that they play in physical problems. The clearly written text contains many pertinent examples that illustrate the topics, even for those with no background in group theory. This work presents important mathematical developments to theoretical physicists in a form that is easy to comprehend and appreciate. Finite groups, Lie groups, Lie algebras, semi-simple Lie algebras, crystallographic point groups and crystallographic space groups, electronic energy bands in solids, atomic physics, symmetry schemes for fundamental particles, and quantum mechanics are all covered in this compact new edition. Covers both group theory and the theory of Lie algebras Includes studies of solid state physics, atomic physics, and fundamental particle physics Contains a comprehensive index Provides extensive examples A range of textbooks and teacher support materials for AS and A level Pre 2008 specification. Physics 1 was developed specifically for the Pre 2008 specifications for AS level. It is endorsed by OCR, and covers the first-year core material of Advanced Level Physics. In conjunction with the other texts in the Cambridge Advanced Sciences series, it provides complete coverage of the OCR physics specification A. Self-assessment questions (with answers) and exam-style end-of-chapter exercises offer excellent opportunities for independent study. Chapter introductions and summaries provide the basis for structured revision. Full-colour illustration and student-friendly design make the science accessible to all. Physics 1 covers all of the first-year core material for Advanced Level physics. 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 This book begins with an examination of the numbers of women in physics in English-speaking countries, moving on to examine factors that affect girls and their decision to continue in science, right through to education and on into the problems that women in physics careers face. Looking at all of these topics with one eye on the progress that the field has made in the past few years, and another on those things that we have yet to address, the book surveys the most current research as it tries to identify strategies and topics that have significant impact on issues that women have in the field. 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 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. This book shows how the web-based PhysGL programming environment (<http://physgl.org>) can be used to teach and learn elementary mechanics (physics) using simple coding exercises. The book's theme is that the lessons encountered in such a course can be used to generate physics-based animations, providing students with compelling and self-made visuals to aid their learning. Topics presented are parallel to those found in a traditional physics text, making for straightforward integration into a typical lecture-based physics course. Users will appreciate the ease at which compelling OpenGL-based graphics and animations can be produced using PhysGL, as well as its clean, simple language constructs. The author argues that coding should be a standard part of lower-division STEM courses, and provides many anecdotal experiences and observations, that include observed benefits of the coding work. University Physics with MasteringPhysics(R), Thirteenth Edition continues to set the benchmark for clarity and rigor combined with effective teaching and research-based innovation. University Physics is known for its uniquely broad, deep, and thoughtful set of worked examples-key tools for developing both physical understanding and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-Solving Strategies to be more concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help students tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of questions and hints. The text's rich problem sets-developed and refined over six decades-are upgraded to include larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance data gathered nationally through MasteringPhysics, making it possible to fine-tune the reliability, effectiveness, and difficulty of individual problems. Complementing the clear and accessible text, the figures use a simple graphic style that focuses on the physics. They also incorporate explanatory annotations-a technique demonstrated to enhance learning. This text is available with MasteringPhysics-the most widely used, educationally proven, and technically advanced tutorial and homework system in the world. This package contains:

University Physics, Thirteenth Edition MasteringPhysics with Pearson eText Student Access Code Card This book covers important concepts and applications of contemporary physics. The book emphasizes logical development of the subject and attempts to maintain rigor in the analytical discussions. The text has been presented in a concise and lucid manner. A modern description of properties and interaction of particle is given along with discussions on topics such as cosmology, laser and applications. The concepts are illustrated by numerous worked examples. Selected problems given at the end of each chapter help students to evaluate their skills. The book with its simple style, comprehensive and up-to-date coverage is highly useful for physics students. The detailed coverage and pedagogical tools make this an ideal book also for the engineering students studying core courses in physics. For courses in College Physics. College Physics, Volume 1, 11th Edition contains Chapters 1-16. Help students see the connections between problem types and understand how to solve them For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. With the 11th Edition, author Phil Adams incorporates data from thousands of surveyed students detailing their use and reliance on worked examples, video tutorials, and need for just-in-time remediation when working homework problems and preparing for exams. Driven by how students actually use the text and media today to prepare for their exams, the new edition adds worked examples and new Example Variation Problems in each chapter to help students see patterns and make connections between problem types. They learn to recognize when to use similar steps in solving the same problem type and develop an understanding for problem solving approaches, rather than simply plugging in an equation. The expanded problem types and scaffolded in-problem support help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills for better exam performance. All new problems sets are available in Mastering Physics with wrong answer specific feedback along with a wealth of new wrong answer feedback, hints, and eTexts links with 20% of end of chapter problems. Note: You are purchasing a standalone product; Mastering Physics does not come packaged with this content. Students, if interested in purchasing this title with Mastering Physics, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text (Chapters 1-30) and Mastering Physics, search for: 0134879473 / 9780134879475 College Physics Plus Mastering Physics with Pearson eText -- Access Card Package Package consists of: 0134876989 / 9780134876986 College Physics 0134878035 / 9780134878034 Mastering Physics with Pearson eText -- ValuePack Access Card -- for College Physics "Physics of Shock and Impact' deals with the shock physics of solids with emphasis on impact applications that are brought about intense energy stimulations. Comprising of two volumes, this work covers physical, material, mechanical and thermodynamic fundamentals of shock physics. The various chapters also include a range of analytic solutions that address topics in the many applications involving shock physics. Volume 2, 'Materials and shock response', addresses equation of state in the shockwave and the response to shock of various material classes."-- Prové de l'editor. REVISED AS PER UGC MODEL CURRICULUM FOR B.Sc. (PASS/HONS.) OF ALL INDIAN UNIVERSITIES Special Features: · Widely acknowledged to be the most complete and authoritative survey text in Physics· Most mathematically complete and challenging text available· Entire book edited to clarify conceptual development in light of recent findings of physics education research· Following the inspiration of Arnold Arons, the Mechanics sequence is re-organized so that energy is the capstone topic· End-of-chapter problem sets are thoroughly over-hauled - new problems are added, out-dated references are deleted, and new short-answer conceptual questions are added· The presentation of Thermodynamics and Quantum Mechanics has been revised to provide a more modern approach to these topics· The supplement package for both students and instructors has been greatly expanded. For students there are a Student Study Guide, Student Solutions Manual, and Student Website. For instructors there are a Instructor's Solutions Manual (both print and electronic), Test Bank, Computerized Test bank, Transparencies, and IRCD with Simulations. EGrade is also available as a testing option About The Book: This is the most comprehensive and detailed book on the market. It has been edited to clarify conceptual development in light of recent findings from physics education research, and the mechanics sequence has been re-organised so that energy is a capstone topic. The presentation of thermodynamics and quantum mechanics has been updated to provide a more modern approach, and the end-of-chapter problem sets have been thoroughly over-hauled: new problems added; out-dated references deleted; and new short-answer conceptual questions added. The supplements package has been expanded to include more materials for student and instructor. Volume 1 of a two-volume set. This important work covers basic mathematical formulas, statistics, nomograms, physical constants, classical mechanics, special theory of relativity, general theory of relativity, and much more. 1955 edition. Continued advances in the precision manufacturing of new structures at the nanometer scale have provided unique opportunities for device physics. This book sets out to summarize those elements of classical mechanics most applicable for scientists and engineers studying device physics. Supplementary MATLAB® materials are available for all figures generated numerically. Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres and holography have been included. Fundamentals of Mechanics is Volume 1 of six-volume Calculus-based University Physics series, designed to meet the requirements of a two-semester course sequence of introductory physics for physics, chemistry, and engineering majors. The present volume focuses on building a good foundation in kinematics and dynamics. The emphasis is placed on understanding basic concepts of kinematics and equilibrium conditions of forces well before handling more difficult subject of dynamics. Concepts and ideas are developed starting from fundamental principles whenever possible and illustrated by numerical and symbolic problems. Detailed guided exercises and challenging problems help students develop their problem solving skills. The complete University Physics series (Volumes 1-6) covers topics in Mechanics, Gravitation, Waves, Sound, Fluids, Thermodynamics, Electricity, Magnetism, Optics, and Modern Physics. Appropriate volumes can be selected to provide students a solid foundation of introductory physics and make their transition into advanced courses easier. Volume 1: Fundamentals of Mechanics - Vectors, Kinematics, Newton's Laws of Motion, Impulse, Energy, Rotation, Physics in Non-inertial Frames. Volume 2: Applications of Mechanics - Newton's Law of Gravitation, Simple Harmonic Motion, Mechanical Waves, Sound, Stress and Strain in Materials, Fluid Pressure, Fluid Dynamics. Volume 3: Thermodynamics - Heat, Temperature, Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwell's Velocity Distribution. Volume 4: Electricity and Magnetism - Static Electricity, Coulomb's Law, Electric Field, Gauss's Law, Electric Potential, Metals and Dielectrics, Magnets, Magnetic Force, Steady Current, Magnetic Field, Ampere's Law, Kirchhoff's Rules, Electrodynamics, Faraday's Law, Maxwell's Equations, AC Circuits. Volume 5: Optics - Law of Reflection, Snell's Law of Refraction, Optical Elements, Optical Instruments, Wave Optics, Interference, Young's Double Slit, Michelson Interferometer, Fabry-Perot Interferometer, Huygens-Fresnel Principle, Diffraction. Volume 6: Modern Physics - Relativity, Quantum Mechanics, Material Science, Nuclear Physics, Fundamental Particles, Gravity, and Cosmology.

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