

Matter And Interactions Solutions Manual

An Introduction to Astronomy and Astrophysics
Atmospheric Boundary Layer
Matter & Interactions II
Immunology for Pharmacy
An Introduction to Celestial Mechanics
Ubiquitous Computing
Particles and Fundamental Interactions
Physics in Biology and Medicine
Matter and Interactions, Volume I
An Introduction to Thermal Physics
Solid State Physics
Physics of Condensed Matter
Elementary Particle Physics
Quantum Theory of Materials
Nuclear Radiation Interactions
Matter and Interactions
Introduction To Algorithms
Particles and Fundamental Interactions: Supplements, Problems and Solutions
College Physics
CPO Focus on Physical Science
Exercises with Solutions in Radiation Physics
Solid State Physics: Essential Concepts
Solutions to Irodov's Problems in General Physics
The Standard Model and Beyond
Convergence
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Physics and Engineering of Radiation Detection
Physics for Scientists and Engineers
Matter and Interactions, Volume III
Intermolecular and Surface Forces
An Introduction To Quantum Field Theory
An Introduction to Tissue-Biomaterial Interactions
Introduction to Health Physics: Fourth Edition
Magnetism in Condensed Matter
Special Relativity
Subatomic Physics
Solutions Manual (3rd Edition)
The McGraw Hill 36 Hour Six Sigma Course
Heat and Mass Transfer
Physics for Scientists and Engineers
Modern Physical Metallurgy
Matter and Interactions Vol. I, Modern Mechanics 4E Binder Ready Version with WebAssign Plus Physics 1 Semester Set

An Introduction to Astronomy and Astrophysics

An accessible overview of the concepts and tools essential to the physics of materials, with applications, exercises, and color figures.

Atmospheric Boundary Layer

This third edition covers topics in physics as they apply to the life sciences, specifically medicine, physiology, nursing and other applied health fields. It includes many figures, examples and illustrative problems and appendices which provide convenient access to the most important concepts of mechanics, electricity, and optics.

Matter & Interactions I

This textbook is an alternative to a classical introductory book in point-set topology. The approach, however, is radically different from the classical one. It is based on convergence rather than on open and closed sets. Convergence of filters is a natural generalization of the basic and well-known concept of convergence of sequences, so that convergence theory is

more natural and intuitive to many, perhaps most, students than classical topology. On the other hand, the framework of convergence is easier, more powerful and far-reaching which highlights a need for a theory of convergence in various branches of analysis. Convergence theory for filters is gradually introduced and systematically developed. Topological spaces are presented as a special subclass of convergence spaces of particular interest, but a large part of the material usually developed in a topology textbook is treated in the larger realm of convergence spaces.

Immunology for Pharmacy

An Introduction to Celestial Mechanics

This is a textbook for the standard undergraduate-level course in thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life.

Ubiquitous Computing

An Introduction to Tissue-Biomaterial Interactions acquaints an undergraduate audience with the fundamental biological processes that influence these sophisticated, cutting-edge procedures. Chapters one through three provide more detail about the molecular-level events that happen at the tissue-implant interface, while chapters four through ten explore selected material, biological, and physiological consequences of these events. The importance of the body's wound-healing response is emphasized throughout. Specific topics covered include: Structure and properties of biomaterials Proteins Protein-surface interactions Blood-biomaterial interactions Inflammation and infection The immune system Biomaterial responses to implantation Biomaterial surface engineering Intimal hyperplasia and osseointegration as examples of tissue-biomaterial interactions The text also provides extensive coverage of the three pertinent interfaces between the body and the biomaterial, between the body and the living cells, and between the cells and the biomaterial that are critical in the development of tissue-engineered products that incorporate living cells within a biomaterial matrix. Ideal for a one-semester, biomedical engineering course, An Introduction to Tissue-Biomaterial Interactions provides a solid framework for understanding today's and tomorrow's implantable biomedical devices.

Particles and Fundamental Interactions

A dynamic, all-inclusive overview of the field of health physics If it's an important topic in the field of health physics, you'll find it in this trusted text . . . in sections on physical principles, atomic and nuclear structure, radioactivity, biological effects

of radiation, and instrumentation. This one-of-a-kind guide spans the entire scope of the field and offers a problem-solving approach that will serve you throughout your career. Features: A thorough overview of need-to-know topics, from a review of physical principles to a useful look at the interaction of radiation with matter Chapter-ending practice problems to solidify your grasp of health physics topics and their real-world application Essential background material on quantitative risk assessment for health-threatening radiation dangers Authoritative radiation safety and environmental health coverage that supports the International Commission on Radiological Protection's standards for specific populations High-yield appendices to expand your comprehension of chapter material: Values of Some Useful Constants, Table of the Elements, The Reference Person, Specific Absorbed Fraction of Photon Energy, and Total Mass Attenuation Coefficients NEW! Essential coverage of non-ionizing radiation-laser and microwaves, computer use in dose calculation, and dose limit recommendations

Physics in Biology and Medicine

Introduces the fundamentals of particle physics with a focus on modern developments and an intuitive physical interpretation of results.

Matter and Interactions, Volume I

This is the solutions manual for many (particularly odd-numbered) end-of-chapter problems in Subatomic Physics, 3rd Edition by Henley and Garcia. The student who has worked on the problems will find the solutions presented here a useful check on answers and procedures.

An Introduction to Thermal Physics

Solid State Physics

With a new pharmacy-specific approach to immunology, Immunology for Pharmacy prepares pharmacists for practice by providing a complete understanding of the basis of immunology and the consequences of either suppressing or enhancing immune function. It covers key subjects such as prophylaxis and vaccination, antibodies as therapeutic and diagnostic agents, biological modifiers, and the rationale for use and mechanisms of therapeutic agents. Written by experienced author and educator Dennis Flaherty, this book presents topics with a logical, step-by-step approach, explaining concepts and their practical application. A companion Evolve website reinforces your understanding with flashcards and animations. Pharmacy-specific coverage narrows the broad field of immunology to those areas most pertinent and clinically relevant to

pharmacy students. 165 full-color illustrations help to illuminate difficult concepts. Factors That Influence the Immune Response chapter covers biological agents including bacteria, viruses, and fungi, and their related toxins and how they relate to the immune system. Three chapters on vaccinations prepare you for this important part of the pharmacist's role by discussing cancer treatment with whole tumor vaccines, cell vaccines, and viral vector vaccines, describing other vaccines such as recombinant vaccines and plant vaccines, and examining how diseases such as diphtheria, whooping cough, and tetanus respond to vaccinations. A summary of drugs used in treating each condition helps you understand typical treatments and their immunological mechanisms, so you can choose proper treatments. Integrated information makes it easier to understand how various parts of the immune system work together, leading to a better understanding of immunology as a whole. A unique focus on practical application and critical thinking shows the interrelationship of concepts and makes it easier to apply theory to practice. Information on AIDS covers the identification and treatment of both strains of HIV as well as AIDS, preparing you for diseases you will see in practice. Unique student-friendly features simplify your study with learning objectives and key terms at the beginning of each chapter, bulleted summaries and self-assessment questions at the end of each chapter, and a glossary at the back of the book. Over 60 tables summarize and provide quick reference to important material. A companion Evolve website includes animations and pharmacy terminology flashcards.

Physics of Condensed Matter

An Introduction to Quantum Field Theory is a textbook intended for the graduate physics course covering relativistic quantum mechanics, quantum electrodynamics, and Feynman diagrams. The authors make these subjects accessible through carefully worked examples illustrating the technical aspects of the subject, and intuitive explanations of what is going on behind the mathematics. After presenting the basics of quantum electrodynamics, the authors discuss the theory of renormalization and its relation to statistical mechanics, and introduce the renormalization group. This discussion sets the stage for a discussion of the physical principles that underlie the fundamental interactions of elementary particle physics and their description by gauge field theories.

Elementary Particle Physics

Quantum Theory of Materials

The ideal companion in condensed matter physics - now in new and revised edition. Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics. Testing problem-solving ability is the best means at the professor's disposal for measuring student progress at critical points in the

learning process. This book enables any instructor to supplement end-of-chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions. Designed to be used in tandem with any of the excellent textbooks on this subject, Solid State Physics: Problems and Solutions provides a self-study approach through which advanced undergraduate and first-year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline. Each problem has been chosen for its ability to illustrate key concepts, properties, and systems, knowledge of which is crucial in developing a complete understanding of the subject, including: * Crystals, diffraction, and reciprocal lattices. * Phonon dispersion and electronic band structure. * Density of states. * Transport, magnetic, and optical properties. * Interacting electron systems. * Magnetism. * Nanoscale Physics.

Nuclear Radiation Interactions

Based on more than 20 years of research and lecturing, Jordi Vil-Guerau de Arellano and his team's textbook provides an excellent introduction to the interactions between the atmosphere and the land for advanced undergraduate and graduate students and a reference text for researchers in atmospheric physics and chemistry, hydrology, and plant physiology. The combination of the book, which provides the essential theoretical concepts, and the associated interactive Chemistry Land-surface Atmosphere Soil Slab (CLASS) software, which provides hands-on practical exercises and allows students to design their own numerical experiments, will prove invaluable for learning about many aspects of the soil-vegetation-atmosphere system. This book has a modular and flexible structure, allowing instructors to accommodate it to their own learning-outcome needs.

Matter and Interactions

Astronomy is the field of science devoted to the study of astronomical objects, such as stars, galaxies, and nebulae. Astronomers have gathered a wealth of knowledge about the universe through hundreds of years of painstaking observations. These observations are interpreted by the use of physical and chemical laws familiar to mankind. These interpretations supply information about the nature of these astronomical objects, allowing for the deduction of their surface and interior conditions. The science associated with these interpretations is called astrophysics. An Introduction to Astronomy and Astrophysics offers a comprehensive introduction to astronomy and astrophysics, complete with illustrative examples and illuminating homework problems. Requiring a familiarity with basic physics and mathematics, this undergraduate-level textbook: Addresses key physics concepts relevant to stellar observations, including radiation, electromagnetic spectrum, photometry, continuous and discrete spectrum, and spectral lines Describes instruments used for astronomical observations as well as how the radiation received is characterized and interpreted to determine the

properties of stars Examines the structure of stars, the basic equations which explain stars in equilibrium, and the fusion reactions occurring in stellar cores Discusses the evolution of stars, the solar system, the dynamics of galaxies, and the fundamentals of modern cosmology Explores the universe at high redshifts, where it is dominated by objects such as active galaxies Solutions manual and figure slides available with qualifying course adoption An Introduction to Astronomy and Astrophysics teaches students how to interpret the night sky, providing them with a critical understanding of the stars and other heavenly bodies.

Introduction To Algorithms

This new edition of *The Standard Model and Beyond* presents an advanced introduction to the physics and formalism of the standard model and other non-abelian gauge theories. It provides a solid background for understanding supersymmetry, string theory, extra dimensions, dynamical symmetry breaking, and cosmology. In addition to updating all of the experimental and phenomenological results from the first edition, it contains a new chapter on collider physics; expanded discussions of Higgs, neutrino, and dark matter physics; and many new problems. The book first reviews calculational techniques in field theory and the status of quantum electrodynamics. It then focuses on global and local symmetries and the construction of non-abelian gauge theories. The structure and tests of quantum chromodynamics, collider physics, the electroweak interactions and theory, and the physics of neutrino mass and mixing are thoroughly explored. The final chapter discusses the motivations for extending the standard model and examines supersymmetry, extended gauge groups, and grand unification. Thoroughly covering gauge field theories, symmetries, and topics beyond the standard model, this text equips readers with the tools to understand the structure and phenomenological consequences of the standard model, to construct extensions, and to perform calculations at tree level. It establishes the necessary background for readers to carry out more advanced research in particle physics. Supplementary materials are provided on the author's website and a solutions manual is available for qualifying instructors.

Particles and Fundamental Interactions: Supplements, Problems and Solutions

Learn the essentials of Six Sigma in just 36 hours The McGraw-Hill 36-Hour Six Sigma Course provides you with the knowledge you need to understand, implement, and manage a Six Sigma program. This detailed yet accessible guide explores 10 essential Six Sigma tools for manufacturing along with other core components of a Six Sigma program.

College Physics

These popular and proven workbooks help students build confidence before attempting end-of-chapter problems. They

provide short exercises that focus on developing a particular skill, mostly requiring students to draw or interpret sketches and graphs.

CPO Focus on Physical Science

"College textbook for intro to physics courses"--

Exercises with Solutions in Radiation Physics

With complete coverage of the basic principles of heat transfer and a broad range of applications in a flexible format, "Heat and Mass Transfer: A Practical Approach" provides the perfect blend of fundamentals and applications. The text provides a highly intuitive and practical understanding of the material by emphasizing the physics and the underlying physical phenomena involved. Key: Text covers the standard topics of heat transfer with an emphasis on physics and real-world every day applications, while de-emphasizing the intimidating heavy mathematical aspects. This approach is designed to take advantage of students' intuition, making the learning process easier and more engaging. Key: The new edition will add helpful web-links for students. Key: 50% of the Homework Problems including design, computer, essay, lab-type, and FE problems are new or revised to this edition. Using a reader-friendly approach and a conversational writing style, the book is self-instructive and entertains while it teaches. It shows that highly technical matter can be communicated effectively in a simple yet precise language.

Solid State Physics: Essential Concepts

Matter and Interactions offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions will be available as a single volume hardcover text and also two paperback volumes. Volume Two includes chapters 13-23.

Solutions to Irodov's Problems in General Physics

The superb book describes the modern theory of the magnetic properties of solids. Starting from fundamental principles, this copiously illustrated volume outlines the theory of magnetic behaviour, describes experimental techniques, and discusses current research topics. The book is intended for final year undergraduate students and graduate students in the

physical sciences.

The Standard Model and Beyond

This reference describes the role of various intermolecular and interparticle forces in determining the properties of simple systems such as gases, liquids and solids, with a special focus on more complex colloidal, polymeric and biological systems. The book provides a thorough foundation in theories and concepts of intermolecular forces, allowing researchers and students to recognize which forces are important in any particular system, as well as how to control these forces. This third edition is expanded into three sections and contains five new chapters over the previous edition.

- starts from the basics and builds up to more complex systems
- covers all aspects of intermolecular and interparticle forces both at the fundamental and applied levels
- multidisciplinary approach: bringing together and unifying phenomena from different fields
- This new edition has an expanded Part III and new chapters on non-equilibrium (dynamic) interactions, and tribology (friction forces)

Convergence Foundations of Topology

Physics and Engineering of Radiation Detection

The book provides theoretical and phenomenological insights on the structure of matter, presenting concepts and features of elementary particle physics and fundamental aspects of nuclear physics. Starting with the basics (nomenclature, classification, acceleration techniques, detection of elementary particles), the properties of fundamental interactions (electromagnetic, weak and strong) are introduced with a mathematical formalism suited to undergraduate students. Some experimental results (the discovery of neutral currents and of the W^\pm and Z^0 bosons; the quark structure observed using deep inelastic scattering experiments) show the necessity of an evolution of the formalism. This motivates a more detailed description of the weak and strong interactions, of the Standard Model of the microcosm with its experimental tests, and of the Higgs mechanism. The open problems in the Standard Model of the microcosm and macrocosm are presented at the end of the book.

Physics for Scientists and Engineers

Special Relativity: A Heuristic Approach provides a qualitative exposition of relativity theory on the basis of the constancy of the speed of light. Using Einstein's signal velocity as the defining idea for the notion of simultaneity and the fact that the

speed of light is independent of the motion of its source, chapters delve into a qualitative exposition of the relativity of time and length, discuss the time dilation formula using the standard light clock, explore the Minkowski four-dimensional space-time distance based on how the time dilation formula is derived, and define the components of the two-dimensional space-time velocity, amongst other topics. Provides a heuristic derivation of the Minkowski distance formula Uses relativistic photography to see Lorentz transformation and vector algebra manipulation in action Includes worked examples to elucidate and complement the topic being discussed Written in a very accessible style

Matter and Interactions, Volume II

Intermolecular and Surface Forces

This book provides an introduction to the complex field of ubiquitous computing Ubiquitous Computing (also commonly referred to as Pervasive Computing) describes the ways in which current technological models, based upon three base designs: smart (mobile, wireless, service) devices, smart environments (of embedded system devices) and smart interaction (between devices), relate to and support a computing vision for a greater range of computer devices, used in a greater range of (human, ICT and physical) environments and activities. The author details the rich potential of ubiquitous computing, the challenges involved in making it a reality, and the prerequisite technological infrastructure. Additionally, the book discusses the application and convergence of several current major and future computing trends. Key Features: Provides an introduction to the complex field of ubiquitous computing Describes how current technology models based upon six different technology form factors which have varying degrees of mobility wireless connectivity and service volatility: tabs, pads, boards, dust, skins and clay, enable the vision of ubiquitous computing Describes and explores how the three core designs (smart devices, environments and interaction) based upon current technology models can be applied to, and can evolve to, support a vision of ubiquitous computing and computing for the future Covers the principles of the following current technology models, including mobile wireless networks, service-oriented computing, human computer interaction, artificial intelligence, context-awareness, autonomous systems, micro-electromechanical systems, sensors, embedded controllers and robots Covers a range of interactions, between two or more UbiCom devices, between devices and people (HCI), between devices and the physical world. Includes an accompanying website with PowerPoint slides, problems and solutions, exercises, bibliography and further reading Graduate students in computer science, electrical engineering and telecommunications courses will find this a fascinating and useful introduction to the subject. It will also be of interest to ICT professionals, software and network developers and others interested in future trends and models of computing and interaction over the next decades.

An Introduction To Quantum Field Theory

A practical summary of the technical and technological as well as nutritional and physiological properties attained through the targeted selection of raw materials and the corresponding production processes. The two authors come from the world's leading gelatine company and adopt here an international approach, enabling their knowledge to be transferred between the various application areas on a global scale. Following an introduction to and the history of gelatine, the text surveys the global industry and current trends, before going on to analyze the basic physical, chemical and technological properties of gelatine. Manufacturing, including quality and safety and the processing of powder, instant gelatine and hydrolysate are dealt with next, prior to an in-depth review of applications in beverages and foodstuffs, pharmaceuticals, health and osteoarthritis, among others. The whole is rounded off by future visions and a useful glossary. Aimed at all gelatine users, heads and technicians in production and quality control, product developers, students of food science and pharmacy as well as marketing experts within the industry and patent lawyers.

An Introduction to Tissue-Biomaterial Interactions

A clear, concise introduction to all the major features of solar system dynamics, ideal for a first course.

Introduction to Health Physics: Fourth Edition

An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms.

Magnetism in Condensed Matter

The textbook begins with exercises related to radioactive sources and decay schemes. The problems covered include series decay and how to determine the frequency and energy of emitted particles in disintegrations. The next chapter deals with the interaction of ionizing radiation, including the treatment of photons and charged particles. The main focus is on applications based on the knowledge of interaction, to be used in subsequent work and courses. The textbook then examines detectors and measurements, including both counting statistics and properties of pulse detectors. The chapter that follows is dedicated to dosimetry, which is a major subject in medical radiation physics. It covers theoretical applications, such as different equilibrium situations and cavity theories, as well as experimental dosimetry, including ionization chambers and solid state and liquid dosimeters. A shorter chapter deals with radiobiology, where different cell survival models are considered. The last chapter concerns radiation protection and health physics. Both radioecology and radiation shielding calculations are covered. The textbook includes tables to simplify the solutions of the exercises, but the

reader is mainly referred to important websites for importing necessary data.

Special Relativity

This book is a treatment on the foundational knowledge of Nuclear Science and Engineering. It is an outgrowth of a first-year graduate-level course which the author has taught over the years in the Department of Nuclear Science and Engineering at MIT. The emphasis of the book is on concepts in nuclear science and engineering in contrast to the traditional nuclear physics in a nuclear engineering curriculum. The essential difference lies in the importance we give to the understanding of nuclear radiation and their interactions with matter. We see our students as nuclear engineers who work with all kinds of nuclear devices, from fission and fusion reactors to accelerators and detection systems. In all these complex systems nuclear radiation play a central role. In generating nuclear radiation and using them for beneficial purposes, scientists and engineers must understand the properties of the radiation and how they interact with their surroundings. It is through the control of radiation interactions that we can develop new devices or optimize existing ones to make them more safe, powerful, durable, or economical. This is why radiation interaction is the essence of this book.

Subatomic Physics Solutions Manual (3rd Edition)

Matter and Interactions, 4th Edition offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions, 4th Edition will be available as a single volume hardcover text and also two paperback volumes.

The McGraw Hill 36 Hour Six Sigma Course

Modern Physical Metallurgy, Fourth Edition discusses the fundamentals and applications of physical metallurgy. The book is comprised of 15 chapters that cover the experimental background of a metallurgical phenomenon. The text first talks about the structure of atoms and crystals, and then proceeds to dealing with the physical examination of metals and alloys. The third chapter tackles the phase diagrams and solidifications, while the fourth chapter covers the thermodynamics of crystals. Next, the book discusses the structure of alloys. The next four chapters deal with the deformations and defects of crystals, metals, and alloys. Chapter 10 discusses work hardening and annealing, while Chapters 11 and 12 cover phase transformations. The succeeding two chapters talk about creep, fatigue, and fracture, while the last chapter covers oxidation and corrosion. The text will be of great use to undergraduate students of materials engineering and other degrees

that deal with metallurgical properties.

Heat and Mass Transfer

Physics of Condensed Matter is designed for a two-semester graduate course on condensed matter physics for students in physics and materials science. While the book offers fundamental ideas and topic areas of condensed matter physics, it also includes many recent topics of interest on which graduate students may choose to do further research. The text can also be used as a one-semester course for advanced undergraduate majors in physics, materials science, solid state chemistry, and electrical engineering, because it offers a breadth of topics applicable to these majors. The book begins with a clear, coherent picture of simple models of solids and properties and progresses to more advanced properties and topics later in the book. It offers a comprehensive account of the modern topics in condensed matter physics by including introductory accounts of the areas of research in which intense research is underway. The book assumes a working knowledge of quantum mechanics, statistical mechanics, electricity and magnetism and Green's function formalism (for the second-semester curriculum). Covers many advanced topics and recent developments in condensed matter physics which are not included in other texts and are hot areas: Spintronics, Heavy fermions, Metallic nanoclusters, ZnO, Graphene and graphene-based electronic, Quantum hall effect, High temperature superconductivity, Nanotechnology Offers a diverse number of Experimental techniques clearly simplified Features end of chapter problems

Physics for Scientists and Engineers

This volume is an exercises and solutions manual that complements the book "Particles and Fundamental Interactions" by Sylvie Braibant, Giorgio Giacomelli, and Maurizio Spurio. It aims to give additional intellectual stimulation for students in experimental particle physics. It will be a helpful companion in the preparation of a written examination, but also it provides a means to gaining a deeper understanding of high energy physics. The problems proposed are sometimes true and important research questions, which are described and solved in a step-by-step manner. In addition to the problems and solutions, this book offers fifteen Supplements that give further insight into topical subjects related to particle accelerators, signal and data acquisition systems and computational methods to treat them.

Modern Physical Metallurgy

Matter and Interactions Vol. I, Modern Mechanics 4E Binder Ready Version with WebAssign Plus Physics 1 Semester Set

Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. The second edition is fully revised and provides the latest developments in detector technology and analyses software. Also, more material related to measurements in particle physics and a complete solutions manual have been added. Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked-out examples and end-of-chapter problems Detailed discussions on different detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems

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