

dimensions, namely, hardware, cyberware, and hybrid-asset management, covering problems encountered in each through a wide variety of representative examples and elaborated illustrations. Further, the diverse mathematical models and intelligent systems constructions make the book highly practical. It enables readers interested in maintenance, robotics, and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies. At the same time, the referenced literature can be used as a roadmap for conducting deeper researches.

Heterogeneous kinetics plays an important role in many scientific disciplines and industrial branches such as physical chemistry, materials science, chemical industry, ceramic industry, etc. Although many excellent books on theories and methods can be found, the aim of this book is to provide an unconventional insight into the heterogeneous kinetics and properties of the activated complex. The introduction of the effective mass of this instanton enables to calculate many other properties, such as the most probable speed of activated complex, the momentum, the energetic density, the mass flux, etc., and to define two quantum numbers of activated state, i.e., the activation energy and the momentum. The monograph is organized into three chapters. The first of them deals with a short historical background, which introduces the beginning of chemical kinetics in the historical context. The second chapter is dedicated to the transition state theory, and the third one explains the concept of effective mass and effective rate of activated state as well as other properties of activated complex.

MODERN PHYSICS presents the latest discoveries in physics, and offers a contemporary and comprehensive approach with a strong emphasis on applications. In order to illustrate the process behind scientific advances and give students a historical perspective, the authors discuss the experiments that led to key discoveries covered in the text. A flexible organization allows you to select and teach topics in your preferred sequence without compromising your student's learning experience. A sound theoretical foundation in quantum theory is included to help physics majors succeed in their upper division courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. An explosion of new materials, devices, and applications makes it more important than ever to stay current with the latest advances. Surveying the field from fundamental concepts to state-of-the-art developments, Photonics: Principles and Practices builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers. Providing self-contained coverage and using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real-world applications by

guiding you through experimental cases illuminated with numerous illustrations. Coverage is divided into six broad sections, systematically working through light, optics, waves and diffraction, optical fibers, fiber optics testing, and laboratory safety. A complete glossary, useful appendices, and a thorough list of references round out the presentation. The text also includes a 16-page insert containing 28 full-color illustrations. Containing several topics presented for the first time in book form, Photonics: Principles and Practices is simply the most modern, comprehensive, and hands-on text in the field.

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Buku ini dibuat khusus untuk mahasiswa yang menempuh perkuliahan fisika dasar. Buku ini merupakan buku pendamping untuk memberikan pemahaman yang lebih mudah kepada mahasiswa terkait sumber referensi-referensi buku fisika yang digunakan di universitas banyak yang berbahasa inggris. Buku ini juga terintegrasi dengan software GeoGebra pada materi vektor dan kinematika yang diharapkan dapat membantu mahasiswa memahami konsep-konsep fisika yang bersifat abstrak. Buku ini berisi tentang materi (1) besaran, satuan, dan analisis dimensi, (2) operasi vektor, (3) kinematika dan (4) dinamika gerak. Beberapa konten dalam buku ini merupakan hasil penelitian dari berbagai referensi yang diharapkan dapat memberikan pemahaman baru dan mendalam terkait konsep fisika. Beberapa pemahaman mahasiswa hasil penelitian juga dideskripsikan sehingga ketika pembaca (mahasiswa) mengetahui informasi tersebut, maka mereka dapat mengukur tingkat pemahamannya secara mandiri

Written for undergraduate biomechanics courses, Applied Biomechanics: Concepts and Connections, Second Edition is a comprehensive resource that focuses on making connections between biomechanics and other subdisciplines of exercise science. With that in mind, each chapter contains a Concepts section and a Connections section. The Concepts are the core nuts and bolts of understanding the mechanics of movement. The Connections are designed to show how the Concepts are used in the many diverse areas within the movement sciences.

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Achieve success in your physics course by using this value-based, paperback edition of Serway's best-selling PHYSICS FOR SCIENTISTS AND ENGINEERS, Eighth Edition, which includes access to Enhanced WebAssign with a built-in e-Book.

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As a market leader, PHYSICS FOR SCIENTISTS AND ENGINEERS is one of the most powerful brands in the physics market. However, rather than resting on that reputation, the new edition of this text marks a significant advance in the already excellent quality of the book. While preserving concise language, state of the art educational pedagogy, and top-notch worked examples, the Eighth Edition features a unified art design as well as streamlined and carefully reorganized problem sets that enhance the thoughtful instruction for which Raymond A. Serway and John W. Jewett, Jr. earned their reputations. Likewise, PHYSICS FOR SCIENTISTS AND ENGINEERS will continue to accompany Enhanced WebAssign in the most integrated text-technology offering available today. In an environment where new Physics texts have appeared with challenging and novel means to teach students, this book exceeds all modern standards of education from the most solid

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This book is an entry-level undergraduate physics textbook, which is suitable for physics, pre-engineering, pre-medical, pre-law, biotechnology or general science students. The approach adopted in this text places emphasis on simplifying abstract concepts by using short derivations of important equations as well as introducing problem-solving strategies that will help the reader to learn quickly to apply simple concepts to solve complex problems in general physics. To address any deficiency in mathematical knowledge needed to succeed in a physics course, Chapter Zero reviews important mathematics concepts that are generally encountered in physics. In addition, each chapter contains several different solved problems in different areas. Additional practice problems are also included in each chapter.

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For Chapters 23-46, this manual contains detailed solutions to approximately 20% of the problems per chapter (indicated in the textbook with boxed problem numbers). The manual also features a skills section, important notes from key sections of the text, and a list of important equations and concepts.

For Chapters 1-22, this manual contains detailed solutions to approximately 20% of the problems per chapter (indicated in the textbook with boxed problem numbers). The manual also features a skills section, important notes from key sections of the text, and a list of important equations and concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book offers a comprehensive presentation of the most important phenomena in building physics: heat transfer, moisture/humidity, sound/acoustics and illumination. As the book is primarily aimed at engineers, it addresses technical issues with the necessary pragmatism and incorporates many practical examples and related international standards. In order to ensure a complete understanding, it also explains the underlying physical principles and relates them to practical aspects in a simple and clear manner. The relationships between the various phenomena of building physics are clarified through consistent cross-referencing of formulas and ideas. The second edition features both new and revised sections on topics such as energy balance, solar gain, ventilation, road traffic and daylighting and takes into account new developments in international standards. It newly features almost 200 illustrations and 21 videos worth of supplementary material. The book is primarily aimed at students of civil engineering and architecture, as well as scientists and practitioners in these fields who wish to deepen or broaden their knowledge of topics within building physics.

PRINCIPLES OF PHYSICS is the only text specifically written for institutions that offer a calculus-based physics course for their life science majors. Authors Raymond A. Serway and John W. Jewett have revised the Fifth Edition of PRINCIPLES OF PHYSICS to include a new worked example format, new biomedical applications, two new Contexts features, a revised problem set based on an analysis of problem usage data from WebAssign, and a thorough revision of every piece of line art in the text. The Enhanced WebAssign course for PRINCIPLES OF PHYSICS is very robust, with all end-of-chapter problems, an interactive YouBook, and book-specific tutorials. Important Notice: Media content referenced within the product description or the product text may not be

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Educational strategies have evolved over the years, due to research breakthroughs and the application of technology. By using the latest learning innovations, curriculum and instructional design can be enhanced and strengthened. The Handbook of Research on Driving STEM Learning With Educational Technologies is an authoritative reference source for the latest scholarly research on the implementation and use of different techniques of instruction in modern classroom settings. Featuring exhaustive coverage on a variety of topics including data literacy, student motivation, and computer-aided assessment, this resource is an essential reference publication ideally designed for academicians, researchers, and professionals seeking current research on emerging uses of technology for STEM education.

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.

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