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The tightening of health and environmental regulations by banning chemical pesticides has generated the need for alternative technologies to solve grain storage problems. Aeration is such an option that can be applied to stored grain and a wide range of agricultural commodities to control insects and maintain quality. The Mechanics and Physics of M

Das Standardwerk in der rundum erneuerten Auflage – der gesamte Stoff bis zum Bachelor: jetzt auch mit spannenden Einblicken in die aktuelle Forschung! Verständlich, einprägsam, lebendig und die perfekte Prüfungsvorbereitung, mit unzähligen relevanten Rechenbeispielen und Aufgaben – dies ist Tiplers bekannte und beliebte Einführung in die Experimentalphysik. Klar und eingängig führt Tipler den Leser durch die physikalische Begriffs- und Formelwelt illustriert von unzähligen liebevoll gestalteten Farbgrafiken. Studienanfänger – egal, ob sie Physik im Hauptfach studieren oder ob es als Nebenfach auf dem Lehrplan steht – finden hier Schritt für Schritt den klar verständlichen Einstieg in die Physik mittels · Verständlicher Aufarbeitung des Prüfungsstoffes · Zahlreichen prüfungsrelevanten Übungsaufgaben · Anschaulichen Grafiken · Durchgehender Vierfarbigkeit · Übersichtlichem und farbkodiertem Layout · Ausgearbeiteten Beispielaufgaben, vom Text deutlich abgesetzt · Zusammenfassungen zu jedem Kapitel mit den wichtigsten Gesetzen und Formeln für jede Prüfung · Schlaglichtern, die aktuelle Themen aus Forschung und Anwendung illustrieren · Problemorientierter Einführung in die mathematischen Grundlagen. Aus dem Inhalt: Mechanik; Schwingungen und Wellen; Thermodynamik; Elektrizität und Magnetismus; Optik; Relativitätstheorie; Quantenmechanik; Atom- und Molekülphysik; Festkörperphysik und

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Teilchenphysik . Beispielaufgaben zum Nachvollziehen und zum selbst Üben vermitteln die notwendige Sicherheit für anstehende Klausuren und mündliche Prüfungen. Sämtliche Übungsaufgaben sind außerdem im Arbeitsbuch zu diesem Lehrbuch ausführlich besprochen und durchgerechnet. Erweitert wird der studienrelevante Inhalt um zahlreiche Kurzeinführungen in spannende aktuelle Forschungsgebiete verfasst von namhaften Forschern der deutschsprachigen Forschungslandschaft. Die Autoren Paul A. Tipler promovierte an der University of Illinois über die Struktur von Atomkernen. Seine ersten Lehrerfahrungen sammelte er an der Wesleyen University of Connecticut. Anschließend wurde er Physikprofessor an der Oakland University, wo er maßgeblich an der Entwicklung des Lehrplans für das Physikstudium beteiligt war. Inzwischen lebt er als Emeritus in Berkeley, California. Gene Mosca hat über viele Jahre Physikkurse an amerikanischen Universitäten (wie Emporia State, University of South Dakota, Annapolis) gegeben und Web-Kurse entwickelt. Als Koautor der dritten und vierten englischen Ausgabe hat er die Studentenmaterialien gestaltet. Jenny Wagner (Hrsg.)

Doing Environmental Ethics faces our ecological crisis by drawing on environmental science, economic theory, international law, and religious teachings, as well as philosophical arguments. It engages students in constructing ethical presumptions based on arguments for duty, character, relationships, and rights, and then tests these moral presumptions by predicting the likely consequences of acting on them. Students apply what they learn to policy issues discussed in the final part of the book: sustainable consumption, environmental policy, clean air and water, agriculture, managing public lands, urban ecology, and climate change. Questions after each chapter and a worksheet aid readers in deciding how to live more

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responsibly. The second edition has been updated to reflect the latest developments in environmental ethics, including sustainable practices of corporations, environmental NGO actions, and rainforest certification programs. This edition also gives greater emphasis to environmental justice, Rawls, and ecofeminism. Revised study questions concern application and analysis, and new “Decisions” inserts invite students to analyze evaluate current environmental issues.

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What does Gerry Anderson's television series SPACE 1999 have in common with Carl Sagan's award-winning television documentary COSMOS? Not very much, one might expect, but this book documents an Online Alpha discussion where fans of the science fiction series discuss and debate differences and similarities from a wide range of perspectives, some of them arguing that two series may be so closely connected that it might be natural to think of COSMOS as the third year of SPACE 1999. This book is written on an idealistic basis. It is sold at the lowest price the publisher was willing to accept. A free e-book version can be downloaded at www.lulu.com.

This book advances understanding of cloud microphysics and provides a unified theoretical foundation for modeling cloud processes, for researchers and advanced students.

The Biographical Encyclopedia of Astronomers is a unique and valuable resource for historians and astronomers alike. The two volumes include approximately 1550 biographical sketches on astronomers from antiquity to modern times. It is the collective work of about 400 authors edited by an editorial board of 9 historians and astronomers, and provides additional details on the nature of an entry and some summary statistics on the content of entries. This new

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reference provides biographical information on astronomers and cosmologists by utilizing contemporary historical scholarship. Individual entries vary from 100 to 1500 words, including the likes of the superluminaries such as Newton and Einstein, as well as lesser-known astronomers like Galileo's acolyte, Mario Guiducci. A comprehensive contributor index helps researchers to identify the authors of important scientific topics and treatises.

Canadians who died before 1976; brief biographical entries arranged alphabetically.

This unique two-volume set presents the subjects of stochastic processes, information theory, and Lie groups in a unified setting, thereby building bridges between fields that are rarely studied by the same people. Unlike the many excellent formal treatments available for each of these subjects individually, the emphasis in both of these volumes is on the use of stochastic, geometric, and group-theoretic concepts in the modeling of physical phenomena. Stochastic Models, Information Theory, and Lie Groups will be of interest to advanced undergraduate and graduate students, researchers, and practitioners working in applied mathematics, the physical sciences, and engineering. Extensive exercises and motivating examples make the work suitable as a textbook for use in courses that emphasize applied stochastic processes or differential geometry.

A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education.

The authors pay special attention to issues that many engineers and students

This Volume, the last of the series, is devoted to water in its metastable forms, especially at sub-zero temperatures. The past few years have witnessed an increasing

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interest in supercooled water and amorphous ice. If the properties of liquid water in the normal temperature range are already eccentric, then they become exceedingly so below the normal freezing point, in the metastable temperature range. Water can be supercooled to -39°C without too much effort, and most of its physical properties show a remarkable temperature dependence under these conditions. Although adequate explanations are still lacking, the time has come to review available knowledge. The study of amorphous ice, that is, the solid formed when water vapor is condensed on a very cold surface, is of longer standing. It has achieved renewed interest because it may serve as a model for the liquid state. There is currently a debate whether or not a close structural relationship exists between amorphous ice and supercooled water. The nucleation and growth of ice in supercooled water and aqueous solutions is also still one of those grey areas of research, although these topics have received considerable attention from chemists and physicists over the past two decades. Even now, the relationships between degree of supercooling, nucleation kinetics, crystal growth kinetics, cooling rate and solute concentration are somewhat obscure. Nevertheless, at the empirical level much progress has been made, because these topics are of considerable importance to biologists, technologists, atmospheric physicists and glaciologists.

Dieses Lehrbuch wendet sich an Studenten der Physik, der Physikalischen Chemie und der Theoretischen Chemie. Aufbauend auf Grundkenntnissen der Atom- und

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Quantenphysik vermitteln die Autoren den Stoff, der zum Grundwissen eines jeden Physikstudenten gehört. Für den Studenten der Chemie bedeuten die in diesem Buch vorgestellten Konzepte das theoretische Grundgerüst für sein Fachgebiet. Dieses Gerüst befähigt ihn, den ungeheuren Erfahrungsschatz der Chemie auf wenige Prinzipien, nämlich die der Quantentheorie, zurückzuführen. Zwei untrennbar miteinander verknüpfte Themenbereiche werden behandelt: die chemische Bindung und die physikalischen Eigenschaften der Moleküle. Erstmals behandelt ein Lehrbuch die Molekülphysik und Quantenchemie in dieser Kombination mit der Zielsetzung, das Grundlegende und Typische herauszuarbeiten, und so dem Studenten einen Überblick über dieses so wichtige und reizvolle Gebiet zu vermitteln. Darüber hinaus vermittelt das Buch Ausblicke auf neue Entwicklungen, etwa die Erforschung der Photosynthese, die Physik supramolekularer Funktionseinheiten und die molekulare Mikroelektronik.

What happens to light when it is trapped in a box? Cavity Quantum Electrodynamics addresses a fascinating question in physics: what happens to light, and in particular to its interaction with matter, when it is trapped inside a box? With the aid of a model-building approach, readers discover the answer to this question and come to appreciate its important applications in computing, cryptography, quantum teleportation, and optoelectronics. Instead of taking a traditional approach that requires readers to first master a series of seemingly unconnected mathematical techniques, this book engages the readers' interest and imagination by going straight to the point, introducing

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the mathematics along the way as needed. Appendices are provided for the additional mathematical theory. Researchers, scientists, and students of modern physics can refer to Cavity Quantum Electrodynamics and examine the field thoroughly. Several key topics covered that readers cannot find in any other quantum optics book include: *

- * Introduction to the problem of the "vacuum catastrophe" and the cosmological constant
- * Detailed up-to-date account of cavity QED lasers and thresholdless lasing
- * Examination of cavities with movable walls
- * First-principles discussion about cavity QED in open cavities
- * Pedagogical account of microscopic quantization in dielectrics

Complementing the coverage of the most advanced theory and techniques, the author provides context by discussing the historical evolution of the field and its discoveries. In that spirit, "recommended reading," provided in each chapter, leads readers to both contemporary literature as well as key historical papers. Despite being one of many specialties within physics, cavity quantum electrodynamics serves as a window to many of the fundamental issues of physics. Cavity Quantum Electrodynamics will serve as an excellent resource for advanced undergraduate quantum mechanics courses as well as for graduate students, researchers, and scientists who need a comprehensive introduction to the field.

Powerful analytical tools from statistical physics, guided by field observations are applied to spread of epidemics and movement ecology.

Labs on Chip: Principles, Design and Technology provides a complete reference for the

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complex field of labs on chip in biotechnology. Merging three main areas— fluid dynamics, monolithic micro- and nanotechnology, and out-of-equilibrium biochemistry—this text integrates coverage of technology issues with strong theoretical explanations of design techniques. Analyzing each subject from basic principles to relevant applications, this book: Describes the biochemical elements required to work on labs on chip Discusses fabrication, microfluidic, and electronic and optical detection techniques Addresses planar technologies, polymer microfabrication, and process scalability to huge volumes Presents a global view of current lab-on-chip research and development Devotes an entire chapter to labs on chip for genetics Summarizing in one source the different technical competencies required, *Labs on Chip: Principles, Design and Technology* offers valuable guidance for the lab-on-chip design decision-making process, while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective.

This graduate text introduces relativistic quantum theory, emphasizing its important applications in condensed matter physics. Relativistic quantum theory is the unification into a consistent theory of Einstein's theory of relativity and the quantum mechanics of Bohr, Schrödinger, and Heisenberg, etc. Beginning with basic theory, the book then describes essential topics. Many worked examples and exercises are included along with an extensive reference list. This clear account of a crucial topic in science will be valuable to graduates and researchers working in condensed matter physics and quantum physics.

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First multi-year cumulation covers six years: 1965-70.

As Dr Needham's immense undertaking gathers momentum it has been found necessary to subdivide volumes into parts, each bound and published separately. The first two parts of Volume IV deal respectively with the physical sciences and with the diverse applications of physics in the many branches of mechanical engineering. The third deals with civil and hydraulic engineering and with nautical technology.

This established text contains an advanced presentation of quantum mechanics adapted to the requirements of modern atomic physics. The third edition extends the successful second edition with a detailed treatment of the wave motion of atoms, and it also contains an introduction to some aspects of atom optics that are relevant for current and future experiments involving ultra-cold atoms. Included: Various problems with complete solutions. Chemistry and Physics for Nurse Anesthesia, Second Edition A Student-Centered Approach Springer Publishing Company

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. New to the Fourth Edition are exercises that provide guided practice for the textbook's Model boxes.

A world list of books in the English language.

Die Wissenschaften vom Künstlichen von Herbert A. Simon gilt seit dem

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Erscheinen der ersten Ausgabe im Jahr 1969 als "Klassiker" der Literatur zum Thema Künstliche Intelligenz. Simon hat zusammen mit den Computerwissenschaftlern Allen Newell, Marvin Minsky und John McCarthy Mitte der fünfziger Jahre das so bezeichnete - von Alan Turing antizipierte - Forschungsgebiet der Computerwissenschaft und der Psychologie ins Leben gerufen. Seine herausragende, allgemeinverständliche Darstellung von Grundüberlegungen und philosophischen Aspekten der Künstlichen Intelligenz ist heute aktueller denn je, nicht nur wegen der ständig zunehmenden Bedeutung der Forschung und Entwicklung auf diesem Gebiet, sondern auch aufgrund des verbreiteten Mangels an Grundkenntnissen für eine kritische Auseinandersetzung mit der Künstlichen Intelligenz.

From the reviews of the First Edition: "This excellent book is based on several sets of lecture notes written over a decade and has its origin in a one-semester course given by the author at the ETH, Zürich, in the spring of 1970. The author's aim was to present some of the best features of Markov processes and, in particular, of Brownian motion with a minimum of prerequisites and technicalities. The reader who becomes acquainted with the volume cannot but agree with the reviewer that the author was very successful in accomplishing this goal...The volume is very useful for people who wish to learn Markov processes but it

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seems to the reviewer that it is also of great interest to specialists in this area who could derive much stimulus from it. One can be convinced that it will receive wide circulation." (Mathematical Reviews) This new edition contains 9 new chapters which include new exercises, references, and multiple corrections throughout the original text.

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