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Carbon Nanomaterials for Biomedical Applications Cambridge University Press

International A/AS-level Science Revision Guides provide exam-focused texts to guide students through the content and skills of the course to prepare them for their AS and A-level exams. - The Introduction provides an overview of the course and how it is assessed, advice on revision and taking the examination papers. - The Content Guidance sections provide a summary of the facts and concepts that you need to know for the examination. - The Experimental Skills & Investigations sections explain the data-handling skills you will need to answer some of the questions in the written papers. It also explains the practical skills that you will need in order to well in the practical examination. - The Questions and Answers sections contain a specimen examination paper for you to try, followed by a set of student's answers for each question

Klara and the Sun Learning Express Llc

Readership: Graduate students and researchers in condensed matter physics.

Earth Springer Science & Business Media

"It's impossible to grasp the whole planet or integrate all the descriptions of it. But because we live here, we have to try. This is not just an artistic compulsion or an existential yearning, still less an academic exercise. It's a survival issue. This is the only planet we have. We're stuck here, and we don't own the place—it would be the height of arrogance to assume that we do. We're tenants here, not owners, but we're tenants with hope for a long-term tenancy. We want to extend our lease just as far as we can."—from *Earth: A Tenant's Manual* In *Earth: A Tenant's Manual*, the distinguished geologist Frank H. T. Rhodes, President Emeritus of Cornell University, provides a sweeping, accessible, and deeply informed guide to the home we all share, showing us how we might best preserve the Earth's livability for ourselves and future generations. Rhodes begins by setting the scene for our active planet and explaining how its location and composition determine how the Earth works and why it teems with life. He emphasizes the changes that are of concern to us today, from earthquakes to climate change and the clashes over the energy resources needed for the Earth's exploding population. He concludes with an extended exploration of humanity's prospects on a complex, protean, and ultimately finite world. It is not a question of whether the planet is sustainable; the challenge facing life on Earth—and the life of the Earth—is whether an expanding and high-consumption species like ours is sustainable. Only new resources, new priorities, new policies and, most of all, new knowledge, can reverse the damage that humanity is doing to our home—and ourselves. A sustainable human future, Rhodes concludes in this eloquent, sobering, but ultimately optimistic book, will require a sense of responsible stewardship, for we are not owners of this planet; we are tenants. Surveying the systems, large and small, that govern Earth's processes and influence its changes, Rhodes addresses the negative consequences of human activities for the health of its regulatory systems but offers practical suggestions as to how we might effect repairs, or at least limit further damage to our home.

Springer

Endorsed by Cambridge Assessment International Education for full syllabus coverage. Foster a deeper understanding of theoretical concepts through clear guidance and opportunities for self-assessment throughout; offers clear coverage of the entire Cambridge International AS & A Level Physics syllabus (9702). - Navigate the different routes through the course with ease with clearly divided sections for AS and A Level. - Focus learning with learning outcomes clearly defined at the beginning of each section - Test knowledge and understanding with past paper and exam-style questions - Address the Key Concepts in the syllabus, which are clearly highlighted throughout the course The Revision and Practice CD included with every Student's Book provides interactive tests, summaries of each topic and advice on examination techniques.

Aamc the Official Guide to the McAt(r) Exam, Fifth Edition Springer Science & Business Media

Artificial "neural networks" are widely used as flexible models for classification and regression applications, but questions remain about how the power of these models can be safely exploited when training data is limited. This book demonstrates how Bayesian methods allow complex neural network models to be used without fear of the "overfitting" that can occur with traditional training methods. Insight into the nature of these complex Bayesian models is provided by a theoretical investigation of the priors over functions that underlie them. A practical implementation of Bayesian neural network learning using Markov chain Monte Carlo methods is also described, and software for it is freely available over the Internet. Presupposing only basic knowledge of probability and statistics, this book should be of interest to researchers in statistics, engineering, and artificial intelligence.

A Tenant's Manual Collins Educational

Starting with the simplest semiclassical approaches and ending with the description of complex fully quantum-mechanical methods for quantum transport analysis of state-of-the-art devices, *Computational Electronics: Semiclassical and Quantum Device Modeling and Simulation* provides a comprehensive overview of the essential techniques and methods for effectively analyzing transport in semiconductor devices. With the transistor reaching its limits and new device designs and paradigms of operation being explored, this timely resource delivers the simulation methods needed to properly model state-of-the-art nanoscale devices. The first part examines semiclassical transport methods, including drift-diffusion, hydrodynamic, and Monte Carlo methods for solving the Boltzmann transport equation. Details regarding numerical implementation and sample codes are provided as templates for sophisticated

simulation software. The second part introduces the density gradient method, quantum hydrodynamics, and the concept of effective potentials used to account for quantum-mechanical space quantization effects in particle-based simulators. Highlighting the need for quantum transport approaches, it describes various quantum effects that appear in current and future devices being mass-produced or fabricated as a proof of concept. In this context, it introduces the concept of effective potential used to approximately include quantum-mechanical space-quantization effects within the semiclassical particle-based device simulation scheme. Addressing the practical aspects of computational electronics, this authoritative resource concludes by addressing some of the open questions related to quantum transport not covered in most books. Complete with self-study problems and numerous examples throughout, this book supplies readers with the practical understanding required to create their own simulators.

Energy Efficient Solvents for CO2 Capture by Gas-Liquid Absorption John Wiley & Sons

From her place in the store, Klara, an Artificial Friend with outstanding observational qualities, watches carefully the behaviour of those who come in to browse, and of those who pass in the street outside. She remains hopeful a customer will soon choose her, but when the possibility emerges that her circumstances may change for ever, Klara is warned not to invest too much in the promises of humans. In 'Klara and the Sun', Kazuo Ishiguro looks at our rapidly-changing modern world through the eyes of an unforgettable narrator to explore a fundamental question: what does it mean to love?

Relativistic Jets from Active Galactic Nuclei Academic Press

An investigative approach to Cambridge IGCSE Geography, written in partnership with the Geographical Association. Encourage students to make links between case studies and their own local contexts as well as exploring the core themes and skills of the 0460 syllabus in the context of global case studies and processes. Prepare for exam success with full coverage of the core themes of Paper 1 (Population and Settlement, The Natural Environment, Economic Development and the Use of Resources) as well as the geographical and fieldwork skills elements of Papers 2, 3 and 4. Help students focus on achieving the best grades with excellent exam support for each Paper, with exam-style questions, answers at different levels and accompanying comments. Be confident in the content and approach - this resource is written by highly experienced Geography teachers, consulted edited by a CIE Principal Examiner, and produced in partnership with the UK Geographical Association - the home of best practice in Geography teaching.

First International Conference, TECH-EDU 2018, Thessaloniki, Greece, June 20-22, 2018, Revised Selected Papers Springer Science & Business Media

Practice in Physics offers students the opportunity to practice a range of question types, including the synoptic style.

Safer Care Human Factors for Healthcare Springer Nature

This book reviews and characterises promising single-compound solvents, solvent blends and advanced solvent systems suitable for CO2 capture applications using gas-liquid absorption. Focusing on energy efficient solvents with minimal adverse environmental impact, the contributions included analyse the major technological advantages, as well as research and development challenges of promising solvents and solvent systems in various sustainable CO2 capture applications. It provides a valuable source of information for undergraduate and postgraduate students, as well as for chemical engineers and energy specialists.

Cambridge O Level Principles of Accounts MIT Press

Libraries have always played a special role in times of disaster by continuing to provide crucial information and services. The Stafford Act of 2011, a federal government directive, designates libraries as among the temporary facilities delivering essential services, making a Continuity of Operations Plan imperative for libraries. Peppared with informative first-person narratives from librarians recounting emergency situations, Halsted, Clifton, and Wilson cover such topics as: An eight-step approach to developing a risk assessment plan How to draft a one-page service continuity plan Information on how to use mobile devices and social media effectively in times of disaster Sample disaster plans, along with model exercises, manuals and customizable communications Published in cooperation with the Medical Library Association (MLA), this nuts-and-bolts resource will enable libraries of all kinds to do their best while planning for the worst.

Compounds, Blends and Advanced Solvent Systems Hodder Education

This is the student study guide to accompany *Intermediate Accounting 11th Canadian Edition, Volume 1*.

Vibronic Coupling Density Oxford University Press - Children

For courses in engineering and economics *Comprehensively blends engineering concepts with economic theory* Contemporary Engineering Economics teaches engineers how to make smart financial decisions in an effort to create economical products. As design and manufacturing become an integral part of engineers' work, they are required to make more and more decisions regarding money. The Sixth Edition helps students think like the 21st century engineer who is able to incorporate elements of science, engineering, design, and economics into his or her products. This text comprehensively integrates economic theory with principles of engineering, helping students build sound skills in financial project analysis. MyEngineeringLab™ not included. Students, if MyEngineeringLab is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MyEngineeringLab should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MyEngineeringLab is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. Instructors can choose from a wide range of assignment options, including time limits, proctoring, and maximum number of attempts allowed. The bottom line: MyEngineeringLab means less time grading and more time teaching.

The Best 296 Business Schools, 2013 Edition World Scientific

As demand for tertiary education continues to rise across Asia, countries are expanding their higher education systems outwards by constructing new universities, hiring more faculty and encouraging private provision. Many of these systems are also moving upwards by introducing new graduate programmes to ensure that there are enough qualified professors and researchers for the future. Based on data from the UNESCO Institute for Statistics (UIS) and a diverse range of national and international sources, this report provides a comprehensive view to evaluate different strategies to expand graduate education. Special focus is given to middle-income countries in the region which have recently experienced the most dramatic growth through an innovative mix of policies. For example, interventions aimed at improving university rankings may be controversial but are nonetheless reshaping university reforms. The report highlights the pros and cons by comparing the three most commonly-used university ranking systems. Across the region, countries are not simply seeking to accommodate more students - they are striving to build top-quality universities that can produce the research and workforce needed for

national economic development. So this report presents a range of data to better evaluate the economic benefits flowing from university research, as well as the spillover effects to the private sector. The authors also analyse the ways in which international collaboration can boost the productivity and quality of university-based research. Overall, this report provides the data and analysis to help countries weigh the balance of different policies to expand their higher education systems.

Cambridge International AS & A Level Physics Student's Book 3rd edition Springer

It gives thorough expert explanations, worked examples and plenty of exam practice in Physics calculations. It can be used as a course support book as well as for exam practice.

Practice in Physics Cambridge University Press

Cambridge International AS and A Level Physics Revision Guide matches the requirements of the Cambridge AS and A Level Physics syllabus.

Cancer Systems Biology Cambridge University Press

This book serves as a practical guide for the use of carbon ions in cancer radiotherapy. On the basis of clinical experience with more than 7,000 patients with various types of tumors treated over a period of nearly 20 years at the National Institute of Radiological Sciences, step-by-step procedures and technological development of this modality are highlighted. The book is divided into two sections, the first covering the underlying principles of physics and biology, and the second section is a systematic review by tumor site, concentrating on the role of therapeutic techniques and the pitfalls in treatment planning. Readers will learn of the superior outcomes obtained with carbon-ion therapy for various types of tumors in terms of local control and toxicities. It is essential to understand that the carbon-ion beam is like a two-edged sword: unless it is used properly, it can increase the risk of severe injury to critical organs. In early series of dose-escalation studies, some patients experienced serious adverse effects such as skin ulcers, pneumonitis, intestinal ulcers, and bone necrosis, for which salvage surgery or hospitalization was required. To preclude such detrimental results, the adequacy of therapeutic techniques and dose fractionations was carefully examined in each case. In this way, significant improvements in treatment results have been achieved and major toxicities are no longer observed. With that knowledge, experts in relevant fields expand upon techniques for treatment delivery at each anatomical site, covering indications and optimal treatment planning. With its practical focus, this book will benefit radiation oncologists, medical physicists, medical dosimetrists, radiation therapists, and senior nurses whose work involves radiation therapy, as well as medical oncologists and others who are interested in radiation therapy.

Computational Electronics Springer Science & Business Media

From the same author as the popular first edition, the second edition of this trusted, accessible textbook is now accessible online, anytime, anywhere on Kerboodle. It breaks down content into manageable chunks to help students with the transition from GCSE to A Level study, and has been fully revised and updated for the new A Level specifications for first teaching September 2015. This online textbook provides plenty of examples and practice questions for consolidation of learning, with 'Biology at Work', 'Key Skills in Biology' and 'Study Skills' sections giving many applications of biology throughout. Suitable for AQA, OCR, WJEC and Edexcel.

The Inferior Colliculus Princeton Review

The critically acclaimed laboratory standard for more than forty years, *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. More than 285 volumes have been published (all of them still in print) and much of the material is relevant even today--truly an essential publication for researchers in all fields of life sciences.

Understanding Molecular Deformation S. Maria Hampshire

A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.