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Molecular Simulations Springer

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

This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2022. Confidently navigate the updated Cambridge International AS & A Level Physics (9702) syllabus with a structured approach ensuring that the link between theory and practice is consolidated, scientific skills are applied, and analytical skills developed. - Enable students to monitor and build progress with short 'self-assessment' questions throughout the student text,

with answers at the back of the book, so students can check their understanding as they work their way through the chapters. - Build scientific communication skills and vocabulary in written responses with a variety of exam-style questions. - Encourage understanding of historical context and scientific applications with extension boxes in the student text. - Have confidence that lessons cover the syllabus completely with a free Scheme of Work available online. - Provide additional practice with the accompanying write-in Practical Skills Workbooks, which once completed, can also be used to recap learning for revision. Also available in the series: Biology Student Book 9781510482876 Chemistry Student Book 9781510480230 Biology Student eTextbook 9781510482913 Biology Whiteboard eTextbook 9781510482920 Chemistry Student eTextbook 9781510482999 Chemistry Whiteboard eTextbook 9781510483002 Physics Student eTextbook 9781510483118 Physics Whiteboard eTextbook 9781510483125 Biology Skills Workbook 9781510482869 Chemistry Skills Workbook 9781510482852 Physics Skills Workbook 9781510482845

Cambridge University Press

Cambridge International AS and A Level Physics 2nd edHodder Education

Practice in Physics Learning Express Llc

This book provides an overview of solar wind

turbulence from both the theoretical and observational perspective. It argues that the interplanetary medium offers the best opportunity to directly study turbulent fluctuations in collisionless plasmas. In fact, during expansion, the solar wind evolves towards a state characterized by large-amplitude fluctuations in all observed parameters, which resembles, at least at large scales, the well-known hydrodynamic turbulence. This text starts with historical references to past observations and experiments on turbulent flows. It then introduces the Navier-Stokes equations for a magnetized plasma whose low-frequency turbulence evolution is described within the framework of the MHD approximation. It also considers the scaling of plasma and magnetic field fluctuations and the study of nonlinear energy cascades within the same framework. It reports observations of turbulence in the ecliptic and at high latitude, treating Alfv é nic and compressive fluctuations separately in order to explain the transport of mass, momentum and energy during the expansion. Further, existing models are compared with direct observations in the heliosphere. The problem of self-similar and anomalous fluctuations in the solar wind is then addressed using tools provided by dynamical system theory and discussed on the basis of available models and observations. The book highlights observations of Yaglom ' s law in solar wind turbulence,

which is one of the most important findings in fully developed turbulence and directly related to the long-lasting and still unsolved problem of solar wind plasma heating. Lastly, it includes a short chapter dedicated to the kinetic range of fluctuations, which has recently been receiving more attention from the space plasma community, since this is inherently related to turbulent energy dissipation and consequent plasma heating. It particularly focuses on the nature and role of the fluctuations populating this frequency range, and discusses several model predictions and recent observational findings in this context.

Klara and the Sun

Academic 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

Expanding Out, Expanding Up : the Rise of Graduate Education and University Research Springer

Provides a detailed overview of the best business schools across North America, including information on each school's academic program, competitiveness, financial aid, admissions requirements and social scenes. Original.

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

Readership: Graduate students and researchers in condensed matter physics.

Energy Efficient Solvents for CO2 Capture by Gas-Liquid Absorption Springer

Addressing the need of chemistry, biology and engineering students to understand and perform their own molecular simulations, the author introduces the fundamentals of molecular modeling for a broad, practice-oriented audience and presents versatile practical applications. The book presents a thorough overview of the underlying concepts.

Cancer Systems Biology Springer

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.

TOEFL Exam Essentials

Pearson Higher Ed

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?

Principles, Practices, and Treatment Planning

Cambridge International AS and A Level Physics 2nd ed

This book focuses in

detail on all ecologically important aspects of the Kongsfjorden system such as the marine and atmospheric environment including long-term monitoring, Ecophysiology of individual species, structure and function of the ecosystem, ecological processes and biological communities. The contributed articles include review articles and research articles that have a wider approach and bring the current research up-to-date. This book will form a baseline for future work.

Calculations for A-level Physics Cambridge University Press

This book helps designers and manufacturers to select and develop the most suitable and competitive steel structures, which are safe, fit for production and economic. An optimum design system is used to find the best characteristics of structural models, which guarantee the fulfilment of design and fabrication requirements and minimize the cost function. Realistic numerical models are used as main components of industrial steel structures. Chapter 1 containts some experiences with the optimum design of steel structures Chapter 2 treats some newer mathematical optimization methods. Chapter 3 gives formulae for fabrication times and costs. Chapters 4 deals with beams and columns. Summarizes the Eurocode rules for design. Chapter 5 deals with the design of tubular trusses. Chapter 6 gives the design of frame structures and fire-resistant

design rules for a frame. In Chapters 7 some minimum cost design problems of stiffened and cellular plates and shells are worked out for cases of different stiffenings and loads. Chapter 8 gives a cost comparison of cylindrical and conical shells. The book contains a large collection of literatures and a subject list and a name index.

Disaster Planning, Response, and Recovery; A How-To-Do-It Manual for Librarians Hodder Murray

This book introduces vibronic coupling density and vibronic coupling constant analyses as a way to understand molecular structure and chemical reactions. After quantum study, the behavior of electrons circulating around nuclei led to the principal concept that underlies all explanations in chemistry. Many textbooks have given plausible explanations to clarify molecular structure—for example, the bond elongation of ethylene under anionization and the nonplanar structure of ammonia. Frontier molecular orbital concepts were proposed to visualize the path of chemical reactions, and conventional explanations gave students a familiarity with molecular structures in terms of the electronic state. By contrast, this book offers a more rational and more convincing path to understanding. It starts from the ab initio molecular Hamiltonian and provides systematic, rational approaches to comprehend chemical

phenomena. In this way, the book leads the reader to a grasp of the quantitative evaluation of the force applied under the molecular deformation process. As well, guidelines are offered for integrating the traditional “ hand-waving ” approach of chemistry with more rational and general VCD and VCC alternatives along with the outlook for newly functionalized chemical systems.

Relativistic Jets from Active Galactic Nuclei Philip Allan

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

Trainer's Manual Hodder Education

This is an edited volume based on expanded versions of the best 30 papers presented at ETWC 2016 in Bali. Included are contributions from the keynote speakers of ETWC 2016: Robert Branch, Tian Belawati, Steve Harmon, Johannes Cronj é , Marc Childress, Mike Spector, Chairul Tanjung, and Rudiantara. The work is organized into the following sections: (a) Effective Technology Integration in Teaching and Learning, (b) Quality Design, Development and Implementation, (c) Innovation and Creativity in Distance Education, and (d) Open Access, Courses and Resources.

Turbulence in the Solar Wind Oxford University Press - Children

This book constitutes the thoroughly refereed post-conference proceedings of the First International Conference on Technology

and Innovation in Learning, Teaching and Education, TECH-EDU 2018, held in Thessaloniki, Greece, on June 20-22, 2018. The 30 revised full papers along with 18 short papers presented were carefully reviewed and selected from 80 submissions. The papers are organized in topical sections on new technologies and teaching approaches to promote the strategies of self and co-regulation learning (new-TECH to SCRL); eLearning 2.0: trends, challenges and innovative perspectives; building critical thinking in higher education: meeting the challenge; digital tools in S and T learning; exploratory potentialities of emerging technologies in education; learning technologies; digital technologies and instructional design; big data in education and learning analytics.

Earth Ruveneco

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.

Higher Education in Asia Springer Science & Business Media

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.

Aamc the Official Guide to the McAt(r) Exam, Fifth Edition VCH

The unprecedented amount of data produced with high-throughput experimentation forces biologists to employ

mathematical representation and computation methods to glean meaningful information in systems-level biology. Applying this approach to the underlying molecular mechanisms of tumorigenesis, cancer researchers can uncover a series of new discov

Library as Safe Haven
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 human future, Rhodes 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 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.