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Severe asthma is a form of asthma that responds poorly to currently available medication, and its patients represent those with greatest unmet needs. In the last 10 years, substantial progress has been made in terms of understanding some of the mechanisms that drive severe asthma; there have also been concomitant advances in the recognition of specific molecular phenotypes. This ERS Monograph covers all aspects of severe asthma – epidemiology, diagnosis, mechanisms, treatment and management – but has a particular focus on recent understanding of mechanistic heterogeneity based on an analytic approach using various ‘omics platforms applied to clinically well-defined asthma cohorts. How these advances have led to improved management targets is also emphasised. This book brings together the clinical and scientific expertise of those from around the world who are collaborating to solve the problem of severe asthma.

Newly revised in line with the latest syllabus and with a modernised, student-friendly design, which provides additional practice for students and brings lab work to life with exciting activities and simulations.

These Study Guides have been developed

exclusively with the Caribbean Examinations Council (CXCRG) to be used as an additional resource by candidates who are following the Caribbean Secondary Education Certificate (CSECRG) programme. They provide candidates with extra support to help them maximise their performance in their examinations.

CSEC Physics Examination Practice

Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by an experienced author, Stephen Pople, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is accompanied by free online access to a wealth of extra support for students including practice exam questions, revision checklists and advice on how to prepare for

Stephen Pople, one of today's most respected

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science authors, has created a totally new physics book to prepare students for examinations.

Complete Physics covers all syllabuses due to a unique combination of Core Pages and Further Topics. Each chapter contains core material valid for all syllabuses. Further Topics at the end can be selected to provide the right mix of pages for the syllabus you are teaching. Key Points: · Totally new book constructed from an analysis of all GCSE Physics syllabuses including IGCSE, CXC, and O'Level · Sets the traditional principles of physics in a modern and global perspective and uses illustrations with a worldwide context · Extra topics to give a truly rounded curriculum · Double-page spread format · Ideal for those students intending to take physics to a more advanced level

A concise well-organised text with well-annotated study diagrams.

One million students and business executives have used the market-leading text Exploring Strategy to boost their academic and professional careers. The expert authors now transfer the essence of Exploring Strategy into The Fundamentals of Strategy. This book is particularly suited for those engaged in short courses.

Oxford Mathematics for the Caribbean has been updated to cater for the needs of the classroom in the 21st century. Features of each book in the series include: prior learning points; fully differentiated exercises to cater

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for a wide range of ability; activities and investigations to encourage mathematical thinking; summaries of the main points of each unit with questions to check understanding, so that students can test themselves; and regular revision exercises to help monitor progress. The series is intended for secondary school pupils studying for the Caribbean Examinations Council (CXC) examinations in mathematics.

Part of the WJEC endorsement process. Help students to apply and develop their knowledge and understanding of Physics with this textbook that builds mathematical skills, provides practical assessment guidance and support for all the required practicals. - Prepare students to approach exams confidently with differentiated Test Yourself questions, Discussion points, exam-style questions and useful chapter summaries. - Provide support for all required practicals along with extra tasks for broader learning. - Support the mathematical and Working scientifically requirements of the new specification with opportunities to develop these skills throughout. - Suitable to support the WJEC GCSE Science (Double Award) qualification.

Specifically tailored for the new 2016 AQA GCSE Science (9-1) specifications, this third edition supports your students on their journey from Key Stage 3 and through to success in the new linear GCSE qualifications. These revision guides will help students revise key concepts, and provide plenty of differentiated practice questions and support.

EAMCET PHYSICS ENGLISH MEDIUM BIT BANK

Prepared as per Latest Intermediate Changed Syallabus

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of Academic Year 2012-13(first year)2013-14(second year). Bit Bank, 6 Model Papers & Previous EAMCET 2014 Paper

With its soaring azure sky and stark landscapes, the American Southwest is one of the most hauntingly beautiful regions on earth. Yet staggering population growth, combined with the intensifying effects of climate change, is driving the oasis-based society close to the brink of a Dust-Bowl-scale catastrophe. In *A Great Aridness*, William deBuys paints a compelling picture of what the Southwest might look like when the heat turns up and the water runs out. This semi-arid land, vulnerable to water shortages, rising temperatures, wildfires, and a host of other environmental challenges, is poised to bear the heaviest consequences of global environmental change in the United States. Examining interrelated factors such as vanishing wildlife, forest die backs, and the over-allocation of the already stressed Colorado River--upon which nearly 30 million people depend--the author narrates the landscape's history--and future. He tells the inspiring stories of the climatologists and others who are helping untangle the complex, interlocking causes and effects of global warming. And while the fate of this region may seem at first blush to be of merely local interest, what happens in the Southwest, deBuys suggests, will provide a glimpse of what other mid-latitude arid lands worldwide--the Mediterranean Basin, southern Africa, and the Middle East--will experience in the coming years. Written with an elegance that recalls the prose of John McPhee and Wallace Stegner, *A Great Aridness* offers an unflinching

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look at the dramatic effects of climate change occurring right now in our own backyard.

This book is a collection of seven in-depth and detailed research papers authored by Dr. Raman K Attri between 1996 to 2005. The book presents early-career scientific work by the author as a scientist at a research organization. The book provides the conceptual background and key electronics and mechanical design principles used in designing sensors and instrumentation systems to measure snow hydrological parameters. The systems discussed in this book can be used to measure snow depth, layer temperature, temperature distribution profile, surface porosity, etc. The snow parameters measured from instruments and sensors discussed in this book are integrated into larger systems and are used in computer-driven models for snow avalanche predictions. The book presents the design challenges and design methods from electronics and instrumentation design point of view. While the book provides essential understanding of analog electronics design and associated mechanical design for snow hydrological sensors, the book also presents the background theoretical and mathematical models from snow hydrology physics that governs this electronics design. The first research paper discusses the design control techniques used to the design a remote surface detector to detect objects with porous, uneven, irregular surfaces like snow using ultrasonic beams. The second research paper describes signal processing techniques and electronics design approaches to design a snow depth sensor with improved sensitivity and directional

response using Ultrasonic Pulse-Transit Method. The third research paper explains theoretical and mathematical model that governs the physical, mechanical, and electronics design to implement the theory of Arrayed Ultrasonic transducers to shape up the directional response and beam width of an ultrasonic beam to improve the chances of receiving sufficient reflection from the non-smooth, highly porous, uneven, non-planar, irregular snow surface. The fourth paper presents the design considerations and performance characteristics of Snow Temperature Profile Sensing System used to measure the temperature gradient and temperature distributions within and outside the snowpack at different depths. The fifth research paper focuses on describing the design of Snow Temperature Profile Sensing System in details and discusses the theoretical and mathematical model that outline important temperature parameters. Then the paper describes how the system is implemented to record or measure those parameters. The sixth paper presents the design considerations, constraints and design techniques used to use RTD temperature sensors for snow temperature measurement applications. The paper also presents the performance evaluation and suitability of such sensors. The seventh paper focuses design techniques for front-end analog signal conditioning module and the design challenges faced when interfacing analog unit to a data acquisition system. The eighth paper describes the design of snow air temperature sensing probe and methods to ensure that it measures true air temperature over a snow cover and is

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not influenced by solar radiations and winds. The book may be read as an applied text-book in conjunction with standard electronics and instrumentation design textbooks. The book will guide students on how to apply basic principles of instrumentation systems design, integrate concepts of physical sciences and measurement sciences for the field applications.

Intermediate First Year Physics Test papers Issued by Board of Intermediate Education w.e.f 2013-2014.

IB Prepared resources are developed directly with the IB to provide the most up-to-date, authentic and authoritative guidance on DP assessment. IB Prepared: Physics combines a concise review of course content with strategic guidance, past paper material and exam-style practice opportunities, allowing learners to consolidate the knowledge and skills that are essential to success.

This revised second edition is improved linguistically with multiple increases of the number of figures and the inclusion of several novel chapters such as actin filaments during matrix invasion, microtubuli during migration and matrix invasion, nuclear deformability during migration and matrix invasion, and the active role of the tumor stroma in regulating cell invasion. Activate is a new Key Stage 3 Science course for the 2014 curriculum, designed to support every student on their journey through Key Stage 3 to Key Stage 4 success. This student book will spark students' curiosity in science, whilst gradually building the maths, literacy and working scientifically skills vital

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for success in the new GCSEs.

The only DP Physics resource developed with the IB to accurately match the new 2014 syllabus for both SL and HL, this completely revised edition gives you unrivalled support for the new concept-based approach to learning, the Nature of science..

Understanding, applications and skills are integrated in every topic, alongside TOK links and real-world connections to truly drive independent inquiry.

Assessment support straight from the IB includes practice questions and worked examples in each topic, alongside support for the Internal Assessment.

Truly aligned with the IB philosophy, this Course Book gives unparalleled insight and support at every stage.

·Accurately cover the new syllabus - the most comprehensive match, with support directly from the IB on the core, AHL and all the options

·Fully integrate the new concept-based approach, holistically addressing understanding, applications, skills and the Nature of science

·Tangibly build assessment potential with assessment support straight from the IB

·Written by co-authors of the new syllabus and leading IB workshop leaders

·Supported by a fully comprehensive and updated Study Guide and Oxford Kerboodle Online Resources

·Also available as a fully online Course Book

About the series The only DP resources developed directly with the IB, the Oxford IB Course Books are the most comprehensive core resources

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to support learners through their study. Fully incorporating the learner profile, resources are assessed by consulting experts in international-mindedness and TOK to ensure these crucial components are deeply embedded into learning. This book offers the perfect two-year course for students revising for CSEC Mathematics. It provides coverage for all CSEC topics and includes examination papers with answers for revision. Short-answer and objective-type tests at the end of each chapter aid students' revision.

This CAPE Economics Multiple Choice Practice book is an invaluable exam preparation aid for CAPE Economics students. This book provides excellent practice for the multiple choice questions from Paper 1 of the CAPE examination, and has been specially written to help CAPE Economics students improve their Paper 1 exam score.

Based on principles of cognitive science, this three-step approach to effective revision combines knowledge, retrieval and interleaving, and extensive exam-style practice to help students master knowledge and skills for GCSE success. UK schools save 50% off the RRP! Discount will be automatically applied when you order on your school account.

This volume presents self-contained survey articles on modern research areas written by experts in their fields. The topics are located at the interface of spectral theory, theory of partial differential

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operators, stochastic analysis, and mathematical physics. The articles are accessible to graduate students and researchers from other fields of mathematics or physics while also being of value to experts, as they report on the state of the art in the respective fields.

Support and enhance exam preparation with contextualised questions, revision tips and examiner advice, to promote efficient and organised study. - Annotations to guide candidate responses to the questions. - What the examiners say to highlight the challenges faced by previous candidates. - Frequently confused terms to increase awareness of the need to use the jargon appropriately. - Revision tips which promote devising and using strategies in a timely fashion to avoid being overwhelmed as the exam nears.

NASA's Chandra X-Ray Observatory has ushered in a revolution in X-ray astronomy. Over the last two decades Chandra has captured stunning celestial X-ray images, measured spectra and monitored light curves to reveal and map the hottest, most energetic regions of the universe. Celebrating its 20th anniversary, this book includes current reviews of the major discoveries and scientific results made by Chandra, authored by leading experts in each sub-field. Documenting the progress, discoveries and developments implemented by the mission, this book provides its readers with a comprehensive review of the mission thus far and its potential future implications. The book includes beautiful images of celestial sources generated from Chandra and multi-wavelength data. 3D figures, movies and interactive

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illustrations are also used throughout to enhance the text. Developed with the Caribbean Examinations Council, this Study Guide provides you with support to maximise your performance in CSEC Physical Education and Sport. Written by teachers, examiners and experts in the field, it covers all elements of the syllabus in an easy-to-use double-page-spread format with a range of features to enhance study. A student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

Nano drug-delivery systems responding to cellular local stimuli, such as pH, temperature and reductive agent's activation, i.e. enzymes, could effectively provide passive-mode desirable release but fail in disease treatment following the biological rhythms of brain tumor. This book is a compilation of research development lead by expert researchers and it establishes a single reference module. It addresses, for the first time, all translational aspects and clinical perspectives of physically stimulated breast-cancer nanotheranostics from a wide-ranging and multidisciplinary perception providing unrivalled and comprehensive knowledge in the field.

Comprehensive Biomedical Physics is a new reference work that provides the first point of entry to the literature for all scientists interested in biomedical physics. It is of particularly use for graduate and postgraduate students in the areas of medical biophysics. This Work is indispensable to all serious readers in this interdisciplinary area where physics is applied in medicine and biology. Written by leading scientists who have evaluated and summarized the most important methods, principles, technologies and data within the field,

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Comprehensive Biomedical Physics is a vital addition to the reference libraries of those working within the areas of medical imaging, radiation sources, detectors, biology, safety and therapy, physiology, and pharmacology as well as in the treatment of different clinical conditions and bioinformatics.

This Work will be valuable to students working in all aspect of medical biophysics, including medical imaging and biomedical radiation science and therapy, physiology, pharmacology and treatment of clinical conditions and bioinformatics. The most comprehensive work on biomedical physics ever published Covers one of the fastest growing areas in the physical sciences, including interdisciplinary areas ranging from advanced nuclear physics and quantum mechanics through mathematics to molecular biology and medicine Contains 1800 illustrations, all in full color

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

?This book presents a selection of papers based on the XXXIII Bia?owie?a Workshop on Geometric Methods in Physics, 2014. The Bia?owie?a Workshops are among the most important meetings in the field and attract researchers from both mathematics and physics. The articles gathered here are mathematically rigorous and have important physical implications, addressing the application of geometry in classical and quantum physics. Despite their long tradition, the workshops remain at the cutting edge of ongoing research. For the last several years, each Bia?owie?a Workshop has been followed by a School on Geometry and Physics, where advanced lectures for graduate students and young researchers are presented; some of the lectures are

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reproduced here. The unique atmosphere of the workshop and school is enhanced by its venue, framed by the natural beauty of the Bia?owie?a forest in eastern Poland. The volume will be of interest to researchers and graduate students in mathematical physics, theoretical physics and mathematmtics.

Physics of Cancer focuses on the mechanical properties of cancer cells and their role in cancer disease and metastasis. It discusses the role of the mechanical properties of interacting cells and the connective tissue microenvironment and describes the role of an inflammation during cancer disease. This outstanding book is the first to describe cancer disease from a biophysical point of view without being incomplete in describing the biological site of cancer.

Originating in part from the author's own courses on tumor biology and cellular biophysics, this book is suitable for both students and researchers in this dynamic interdisciplinary field, be they from a physical, biological or medical sciences background.

Physics for CXC is a complete course book covering all the physics required for the CXC syllabus. All topics are carefully explained from a basic starting point which assumes very little prior knowledge or mathematical skill. This textbook is the ideal student mathematics coursebook for the two years leading up to the CXC examination. Written to give students a thorough preparation for the examination, the book provides comprehensive coverage of all areas of the mathematics syllabus and ample practice in the types of question that feature in the examination itself.

Developed exclusively with the Caribbean Examinations Council, this Study Guide will provide you with the

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support to maximise your performance in CSEC Mathematics. Written by a team of experts in the syllabus and the examination, this Study Guide covers all the essential information in an easy-to-use double page spread format and with online support. Each topic begins with key learning outcomes and contains a range of features to enhance your study of the subject.

Management Accounting: Principles and Applications adopts a new and accessible approach to helping readers understand how management accounting contributes to decisions in a variety of organizational contexts. This book sets out clear explanations of practical management accounting techniques in the context of the application of these techniques to decisions. It recognizes practice through case studies and summarizes published research. Uniquely, it examines the analytical and critical issues that often influence decision makers operating within private and public sector organizations.

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