

Ocr Physics B June2013 Paper G494

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Getting the Word Out Hachette UK

Recent scandals and controversies, such as data fabrication in federally funded science, data manipulation and distortion in private industry, and human embryonic stem cell research, illustrate the importance of ethics in science. *Responsible Conduct of Research*, now in a completely updated second edition, provides an introduction to the social, ethical, and legal issues facing scientists today.

Into the Wild SAGE Publications

Making the leap to Cambridge IGCSE can be a challenge - this brand new course leads learners smoothly through all three stages of Cambridge Secondary 1 Physics up to Cambridge Checkpoint and beyond, with crucial rigour built in from the outset so they can dive into Cambridge IGCSE Science study with confidence.

The Age of Em Oxford University Press

New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

Responsible Conduct of Research 讀書共和國 感電出版

Rigorous graduate-level text stresses modern applications to nonstructural problems such as temperature vibration effects, order-disorder phenomena, crystal imperfections, more. Problems. Six Appendixes include tables of values. Bibliographies.

The Algorithm Design Manual Letts Educational

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. *Transforming the Workforce for Children Birth Through Age 8* explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. *Transforming the Workforce for Children Birth Through Age 8* offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Protocols for Oligonucleotide Conjugates Humana Press

The compendium presents the latest results of the most prominent competitions held in the field of Document Analysis and Text Recognition. It includes a description of the participating systems and the underlying methods on one hand and the datasets used together with evaluation metrics on the other hand. This volume also demonstrates with examples, how to organize a competition and how to make it successful. It will be an indispensable handbook to the document image analysis community.

Math for Liberal Studies Pelagic Publishing Ltd

R. Shankar has introduced major additions and updated key presentations in this second edition of *Principles of*

Quantum Mechanics. New features of this innovative text include an entirely rewritten mathematical introduction, a discussion of Time-reversal invariance, and extensive coverage of a variety of path integrals and their applications. Additional highlights include: - Clear, accessible treatment of underlying mathematics - A review of Newtonian, Lagrangian, and Hamiltonian mechanics - Student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates - Unsurpassed coverage of path integrals and their relevance in contemporary physics The requisite text for advanced undergraduate- and graduate-level students, *Principles of Quantum Mechanics, Second Edition* is fully referenced and is supported by many exercises and solutions. The book's self-contained chapters also make it suitable for independent study as well as for courses in applied disciplines.

Financial Theory and Corporate Policy Kendall/Hunt Publishing Company

Fingerprints constitute one of the most important categories of physical evidence, and it is among the few that can be truly individualized. During the last two decades, many new and exciting developments have taken place in the field of fingerprint science, particularly in the realm of methods for developing latent prints and in the growth of imag

Transforming Trajectories for Women of Color in Tech Letts and Lonsdale

Exam Board: OCR Level: GCSE Subject: Geography First Teaching: September 2016 First Exam: June 2018 An OCR endorsed textbook Build your students' subject knowledge and cross-disciplinary enquiry skills with this modern, topic-based approach, brought to life through clear explanations and skills-focused activities that are tailored to the new assessment requirements; produced by one of the leading Geography publishers and OCR's Publishing Partner for Geography. - Maps the content against the reformed specification, providing an easy-to-follow teaching pathway designed by an author team of experienced teachers and examiners - Equips students with the subject knowledge and up-to-date case study examples they need to maximise their potential, with opportunities to undertake developmental activities for each topic - Offers you a whole-class solution to teaching the non-tiered papers with extension activities to stretch high achievers and scaffolded questions that support lower ability students - Embeds a focus on mathematical and statistical skills throughout by including opportunities to analyse a range of maps, graphs, GIS material and data sources - Prepares students to approach assessment confidently with practice questions of varying difficulty and handy tips for successfully answering enquiry questions - Highlights possible fieldwork projects and contains guidance on carrying out fieldwork, making it easier to integrate practical and theoretical learning

Flight Stability and Automatic Control Springer Science & Business Media

Packed full of GCSE-style questions to test understanding, this OCR Gateway Science exam practice workbook is designed to help familiarise students with the types of questions that they may come across in the exam. Feel confident with thorough exam preparation for GCSE OCR Gateway Science. Including different question formats, this exam practice workbook allows you to revise in a way that suits you best and improve your performance in the exam. Included in this book: * a variety of question formats as used by OCR to give students the best possible practice prior to tests and exams * lots of quick tests to check understanding * relevant formulae and data sheets * clear and concise coverage of the exam assessed content * simple and engaging explanations * highlighted key words, plus a supporting glossary to build vocabulary

Advances in Fingerprint Technology IBM Redbooks

The general theory of orthogonal polynomials was developed in the late 19th century from a study of continued fractions by P. L. Chebyshev, even though special cases were introduced earlier by Legendre, Hermite, Jacobi, Laguerre, and Chebyshev himself. It was further developed by A. A. Markov, T. J. Stieltjes, and many other mathematicians. The book by Szego, originally published in 1939, is the first monograph devoted to the theory of orthogonal polynomials and its applications in many areas, including analysis, differential equations, probability and

mathematical physics. Even after all the years that have passed since the book first appeared, and with many other books on the subject published since then, this classic monograph by Szego remains an indispensable resource both as a textbook and as a reference book. It can be recommended to anyone who wants to be acquainted with this central topic of mathematical analysis.

OCR GCSE (9–1) Geography B: Geography for Enquiring Minds Morgan & Claypool Publishers

Documents usually have a content and a structure. The content refers to the text of the document, whereas the structure refers to how a document is logically organized. An increasingly common way to encode the structure is through the use of a mark-up language. Nowadays, the most widely used mark-up language for representing structure is the eXtensible Mark-up Language (XML). XML can be used to provide a focused access to documents, i.e. returning XML elements, such as sections and paragraphs, instead of whole documents in response to a query. Such focused strategies are of particular benefit for information repositories containing long documents, or documents covering a wide variety of topics, where users are directed to the most relevant content within a document. The increased adoption of XML to represent a document structure requires the development of tools to effectively access documents marked-up in XML.

This book provides a detailed description of query languages, indexing strategies, ranking algorithms, presentation scenarios developed to access XML documents. Major advances in XML retrieval were seen from 2002 as a result of INEX, the Initiative for Evaluation of XML Retrieval. INEX, also described in this book, provided test sets for evaluating XML retrieval effectiveness. Many of the developments and results described in this book were investigated within INEX. Table of Contents: Introduction / Basic XML Concepts / Historical Perspectives / Query Languages / Indexing Strategies / Ranking Strategies / Presentation strategies / Evaluating XML Retrieval Effectiveness / Conclusions

IBM FileNet Content Manager Implementation Best Practices and Recommendations Cambridge University Press

Jeannine R. Studer's *The Essential School Counselor in a Changing Society* offers a practical approach to helping students understand the methods and standards in contemporary school counseling. Integrating the new ASCA model as well as the CACREP Standards across all areas of school counseling practice, this core text provides a unique and relevant perspective on the 21st century school counselor. Studer focuses on ethics and ethical decision making, as well as contemporary issues faced by today's counselor—such as crisis response, career counseling and advisement, group counseling, advocacy, and collaboration. The text begins with coverage of school counseling foundations, addresses intervention and prevention, and devotes the final section to enhancing academics through a positive school culture. “Not only does this text address the CACREP standards for school counseling but it also provides excellent examples and applications of school counseling within the ASCA National Model framework!” —Karen D. Rowland, Mercer University “This text is a valuable contribution to the profession, addressing the multi-dimensional and complex roles and responsibilities of the 21st century school counselor. It is a foundational text that counselor-educators can utilize throughout a master's degree program in mentoring interns into the profession.” —Diana L. Stephens, California Lutheran University

The Mary Wigman Book Anchor

A comprehensive guide to everything scientists need to know about data management, this book is essential for researchers who need to learn how to organize, document and take care of their own data. Researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research. Kristin Briney offers practical advice and clearly explains policies and principles, in an accessible and in-depth text that will allow researchers to understand and achieve the goal of better research data management. Data Management for Researchers includes sections on: * The data problem – an introduction to the growing importance and challenges of using digital data in research. Covers both the inherent problems with managing digital information, as well as how the research landscape is changing to give more value to research datasets and code. * The data lifecycle – a framework for data’s place within the research process and how data’s role is changing. Greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data. * Planning for data management – covers the many aspects of data management and how to put them together in a data management plan. This section also includes sample data management plans. * Documenting your data – an often overlooked part of the data management process, but one that is critical to good management; data without documentation are frequently unusable. * Organizing your data – explains how to keep your data in order using organizational systems and file naming conventions. This section also covers using a database to organize and analyze content. * Improving data analysis – covers managing information through the analysis process. This section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier, such as spreadsheet best practices. It also examines practices for research code, including version control systems. * Managing secure and private data – many researchers are dealing with data that require extra security. This section outlines what data falls into this category and some of the policies that apply, before addressing the best practices for keeping data secure. * Short-term storage – deals with the practical matters of storage and backup and covers the many options available. This section also goes through the best practices to insure that data are not lost. * Preserving and archiving your data – digital data can have a long life if properly cared for. This section covers managing data in the long term including choosing good file formats and media, as well as determining who will manage the data after the end of the project. * Sharing/publishing your data – addresses how to make data sharing across research groups easier, as well as how and why to publicly share data. This section covers intellectual property and licenses for datasets, before ending with the altmetrics that measure the impact of publicly shared data. * Reusing data – as more data are shared, it becomes possible to use outside data in your research. This chapter discusses strategies for finding datasets and lays out how to cite data once you have found it. This book is designed for active scientific researchers but it is useful for anyone who wants to get more from their data: academics, educators, professionals or anyone who teaches data management, sharing and preservation. "An excellent practical treatise on the art and practice of data management, this book is essential to any researcher, regardless of subject or discipline." —Robert Buntrock, Chemical Information Bulletin

Experiments and Observations on Electricity, Made at Philadelphia in America National Academies Press

IBM® FileNet® Content Manager Version 5.2 provides full content lifecycle and extensive document management capabilities for digital content. IBM FileNet Content Manager is tightly integrated with the family of IBM FileNet products based on the IBM FileNet P8 technical platform. IBM FileNet Content Manager serves

as the core content management, security management, and storage management engine for the products. This IBM Redbooks® publication covers the implementation best practices and recommendations for solutions that use IBM FileNet Content Manager. It introduces the functions and features of IBM FileNet Content Manager, common use cases of the product, and a design methodology that provides implementation guidance from requirements analysis through production use of the solution. We address administrative topics of an IBM FileNet Content Manager solution, including deployment, system administration and maintenance, and troubleshooting. Implementation topics include system architecture design with various options for scaling an IBM FileNet Content Manager system, capacity planning, and design of repository design logical structure, security practices, and application design. An important implementation topic is business continuity. We define business continuity, high availability, and disaster recovery concepts and describe options for those when implementing IBM FileNet Content Manager solutions. Many solutions are essentially a combination of information input (ingestion), storage, information processing, and presentation and delivery. We discuss some solution building blocks that designers can combine to build an IBM FileNet Content Manager solution. This book is intended to be used in conjunction with product manuals and online help to provide guidance to architects and designers about implementing IBM FileNet Content Manager solutions. Many of the features and practices described in the book also apply to previous versions of IBM FileNet Content Manager.

A Level Mathematics for OCR A Student Book 1 (AS/Year 1) American Mathematical Soc.
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Handbook of Biomass Downdraft Gasifier Engine Systems University Press of New England

Demand for tech professionals is expected to increase substantially over the next decade, and increasing the number of women of color in tech will be critical to building and maintaining a competitive workforce. Despite years of efforts to increase the diversity of the tech workforce, women of color have remained underrepresented, and the numbers of some groups of women of color have even declined. Even in cases where some groups of women of color may have higher levels of representation, data show that they still face significant systemic challenges in advancing to positions of leadership. Research evidence suggests that structural and social barriers in tech education, the tech workforce, and in venture capital investment disproportionately and negatively affect women of color. Transforming Trajectories for Women of Color in Tech uses current research as well as information obtained through four public information-gathering workshops to provide recommendations to a broad set of stakeholders within the tech ecosystem for increasing recruitment, retention, and advancement of women of color. This report identifies gaps in existing research that obscure the nature of challenges faced by women of color in tech, addresses systemic issues that negatively affect outcomes for women of color in tech, and provides guidance for transforming existing systems and implementing evidence-based policies and practices to increase the success of women of color in tech.

OCR Gateway Science B Wipf and Stock Publishers

You will easily synthesize and analyze oligonucleotide conjugates by following the step-by-step protocols presented in this volume. These techniques are widely used by all molecular biologists and

antisense researchers and find special application by pharmacologists working in new drug development and quality assurance assay.

Complete Physics for Cambridge Secondary 1 Student Book Springer Science & Business Media

Serving as a suite of complementary specifications, this title offers options for science at GCSE. Its specifications and resources are the products of collaboration between the University of York Science Education Group, the Nuffield Curriculum Centre, OCR, and Oxford University Press.

Document Analysis And Text Recognition: Benchmarking State-of-the-art Systems Oxford University Press - Children

This new edition combines the traditional areas of electric machinery with the latest in modern control and power electronics. It includes coverage of multi-machine systems, brushless motors and switched reluctance motors, as well as constant flux and constant current operation of induction motors. It also features additional material on new solid state devices such as Insulated Gate Bipolar Transistors and MOS-Controlled Thyristors.