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Chemistry for the IB Diploma Second Edition - Richard Harwood 2015-07-31
Provide clear guidance to the 2014 changes and ensure in-depth study with accessible content, directly mapped to the new syllabus and approach to learning. This second edition of the highly-regarded first edition contains all SL and HL content, which is clearly identified throughout. Options are available free online, along with appendices and data and statistics. - Improve exam performance, with exam-style questions, including from past papers - Integrate Theory of Knowledge into your lessons and provide opportunities for cross-curriculum study - Stretch more able students with extension activities - The shift to concept-based approach to learning, Nature of Science, is covered by providing a framework for the course with points for discussion - Key skills and experiments included - Full digital package - offered in a variety of formats so that you can deliver the course just how you like!

IB Chemistry Revision Guide - Ray Dexter 2019-09-16

A very challenging subject IB chemistry requires tremendous effort to understand fully and attain a high grade. 'IB Chemistry Revision Guide' simplifies the content and provides clear explanations for the material.

Cambridge International AS and A Level Biology - C. J. Clegg 2015-01-30
This title covers the entire syllabus for Cambridge International Examinations' International AS and A Level Biology (9700). It is divided into separate sections for AS and A Level making it ideal for students studying both the AS and the A Level and also those taking the AS examinations at the end of their first year. - Explains difficult concepts using language that is appropriate for students around the world - Provides practice throughout the course with carefully selected past paper questions at the end of each chapter. We are working with Cambridge International Examinations to gain endorsement for this title.

Exploring Chemistry with Electronic Structure Methods - James B. Foresman 1996

Petroleum Refinery Process Modeling - Y. A. Liu 2018-06-05

A comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes. Petroleum Refinery Process Modeling offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes. The text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling. The authors - three experts on

the topic - outline the procedures and include the key data required for building reaction and fractionation models with commercial software. The text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub-models. It provides a sound and informed basis to understand and exploit plant phenomena to improve yield, consistency, and performance. In addition, the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming. This important resource: -Offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling -Uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric (CDU) and vacuum (VDU) distillation units -Discusses modeling FCC, catalytic reforming and hydroprocessing units Written for chemical engineers, process engineers, and engineers for measurement and control, this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers.

Cambridge International AS and A Level Chemistry Workbook with CD-ROM - Roger Norris 2016-06-09

Fully revised and updated content matching the Cambridge International AS & A Level Chemistry syllabus (9701). The Cambridge International AS and A Level Chemistry Workbook with CD-ROM supports students to hone the essential skills of handling data, evaluating information and problem solving through a varied selection of relevant and engaging exercises and exam-style questions. The Workbook is endorsed by Cambridge International Examinations for Learner Support. Student-focused scaffolding is provided at relevant points and gradually reduced as the Workbook progresses, to promote confident, independent learning. Answers to all exercises and exam-style questions are provided on the CD-ROM for students to use to monitor their own understanding and track their progress through the course.

Speaking about Science - Scott Morgan 2006-10-16

"Speaking About Science : A Manual for Creating Clear Presentations is essential reading for anyone who presents data at meetings and conferences. Based on the curriculum that authors have developed for their public speaking courses, the book provides the practical tools all speakers need to create clear and compelling presentations for any audience."--BOOK JACKET.

Cambridge IGCSE Chemistry Workbook - Richard Harwood 2011-02-10

The new Third Edition matches the requirements of the revised Cambridge IGCSE Chemistry syllabus (0620).

Closing the Circle - Sean A. Walmsley 2008-03-07

In *Closing the Circle*, Sean Walmsley offers education practitioners at all levels—district and school administrators, curriculum supervisors, staff developers, literacy coaches, classroom teachers, and special education teachers—a coherent framework along with practical advice for setting K-12 language arts expectations and for effectively guiding instruction, assessment, reporting, and data analysis. Distilled from the author's extensive experience working with schools and districts, the framework enables educators to prioritize literacy learning and work together more productively to achieve better literacy outcomes for all students. The innovative framework includes five major elements: (1) a set of clearly defined literacy attributes (concise expectations for what students should know, do, understand, and experience in the language arts); (2) instructional contributions that best support students, including struggling learners, in acquiring the attributes; (3) appropriate assessments for tracking students' progress; (4) reporting practices that clearly explain the progress achieved; and (5) rigorous analysis of data to

inform instruction. The model embraces a broad conception of literacy and includes expectations for reading, writing, listening, and speaking as well as viewing and representing, making it especially suitable for learning in the digital era.

Chemistry for the IB Diploma Exam Preparation Guide - Steve Owen 2015-06-25

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016.

The Cambridge Guide to Fiction in English - Ian Ousby 1998-09-24

The Cambridge Guide to Fiction in English, an alphabetized reference work with over 2,000 entries, will be an invaluable resource to anyone with an interest in the novel, whether studying, teaching or reading for pleasure. Writers and major works from the UK and USA are represented, as are those from the rest of the English-speaking world - Canada, Australia, New Zealand, Africa, India, and the Caribbean. Particular types of novels (from the Gothic to the campus novel) receive detailed coverage as do trends in fiction (such as realism and naturalism) and popular genres (detective, spy and science fiction). Based on the Guide to Literature in English, this book has a substantial number of new entries and has been completely updated. An original and thought-provoking introduction analyses the historical development and current form of the novel; a selective bibliography indicates areas for further reading, and an appendix lists recipients of all the major literary prizes.

Atomic Astrophysics and Spectroscopy - Anil K. Pradhan 2011-01-06

Spectroscopy enables the precise study of astronomical objects and phenomena. Bridging the gap between physics and astronomy, this is the first integrated graduate-level textbook on atomic astrophysics. It covers the basics of atomic physics and astrophysics, including state-of-the-art research applications, methods and tools. The content is evenly balanced between the physical foundations of spectroscopy and their applications to astronomical objects and cosmology. An undergraduate knowledge of physics is assumed, and relevant basic material is summarized at the beginning of each chapter. The material is completely self-contained and features sufficient background information for self-study. Advanced users will find it handy for spectroscopic studies. A website hosted by the authors contains updates, corrections, exercises and solutions, as well as news items from physics and astronomy related to spectroscopy. A link to this can be found at www.cambridge.org/9780521825368.

Cambridge International AS and A Level Chemistry Coursebook with CD-ROM -

Lawrie Ryan 2014-07-31

Fully revised and updated content matching the Cambridge International AS & A Level Chemistry syllabus (9701). Endorsed by Cambridge International Examinations, the Second edition of the AS/A Level Chemistry Coursebook comprehensively covers all the knowledge and skills students need for AS/A Level Chemistry 9701 (first examination 2016). Written by renowned experts in Chemistry, the text is written in an accessible style with international learners in mind. The Coursebook is easy to navigate with colour-coded sections to differentiate between AS and A Level content. Self-assessment questions allow learners to track their progression and exam-style questions help learners to prepare thoroughly for their examinations. Contemporary contexts and applications are discussed throughout enhancing the relevance and interest for learners.

Visual Arts for the IB Diploma Coursebook - Heather McReynolds 2017-01-31

A visually-striking and thought-provoking resource to support Visual Arts for the IB diploma. Visual Arts for the IB Diploma student book is tailored to the IB subject guide for first exam 2016. This student book covers each of the core areas of the Visual Arts course and links them to theoretical, art-making and curatorial practices. It includes activities to give students practical ways to

learn and reflect on their work, as well as a wealth of case studies and examples of students' work to aid understanding of visual arts in the real world.

Chemistry Olympiad Support Booklet - Phil Copley 2008

An essential resource for teachers of gifted and talented post-16 chemistry students. This booklet can be used as a teaching tool, or by students themselves as a self-study guide. It takes you step by step through a number of questions from past UK Chemistry Olympiad competitions, challenging students' skills and understanding in chemistry, and testing their ability to solve problems and apply their knowledge. This product comes as a pack of 10 booklets.

Chemistry for the IB Diploma Coursebook with Free Online Material - Steve Owen 2014-03-13

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. The Second edition of this well-received Coursebook is fully updated for the IB Chemistry syllabus for first examination in 2016, comprehensively covering all requirements. Get the best coverage of the syllabus with clear assessment statements, and links to Theory of Knowledge, International-mindedness and Nature of Science themes. Exam preparation is supported with plenty of sample exam questions, online test questions and exam tips. Chapters covering the Options and Nature of Science, assessment guidance and answers to questions are included in the additional online material available with the book.

The Battle Over Homework - Harris M. Cooper 1994-09-07

This comprehensive, one-of-a-kind book provides readers with the latest information on an important, although often overlooked, aspect of teaching. Author Harris Cooper spent hundreds of hours interviewing principals, teachers, parents, and students about homework. He then supplemented his findings with a careful study of all available research and literature. Administrators will find *The Battle Over Homework* an invaluable resource for developing workable solutions to the homework dilemmas plaguing their schools.

Journal of Education - 1903

The Cambridge Paperback Guide to Literature in English - Ian Ousby 1996-02-23

Derived from the parent *Guide to Literature in English*, this volume offers in concise form over 4,000 entries on literature in English from cultures throughout the world. Writers and major works from the UK and the USA are represented, as are those from Canada, the Caribbean, Australia, India, and Africa. The coverage is broad - from the classics of English literature to the best of modern writing. Additionally, the *Guide* has a wealth of entries on literary movements, groups or schools in literature and criticism, literary magazines, genres and sub-genres, critical concepts, and rhetorical terms.

The American Catalogue - 1901

American national trade bibliography.

Cambridge International AS and A Level Biology Revision Guide - John Addis 2016-11-24

A revision guide tailored to the AS and A Level Biology syllabus (9700) for first examination in 2016. This Revision Guide offers support for students as they prepare for their AS and A Level Biology (9700) exams. Containing up-to-date material that matches the syllabus for examination from 2016, and packed full of guidance such as Worked Examples, Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes. These features have been specifically designed to help students apply their knowledge in exams. Written in a clear and straightforward tone, this Revision Guide is perfect for international learners.

Complete Chemistry for Cambridge IGCSE® - RoseMarie Gallagher 2015-09-03

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 experienced authors, 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. You will also receive free access to extra support online, including practice exam questions, revision checklists and advice on how to prepare for an examination.

IGCSE Chemistry - Bryan Earl 2012-10

This Practice Book supports the existing and bestselling edition of IGCSE Chemistry Student's Book. - The perfect resource to use throughout the course to ensure you learn the topics and practise the content of the Cambridge IGCSE syllabus. - Contains a wealth of levelled questions, including Stretch and Challenge for higher ability students. - Plenty of exam-style questions and actual exam questions from past Cambridge exam papers for exam success.

Journal of the Society of Chemical Industry - 1924

Level Course in Chemistry - J. G. R. Briggs 2002-12

Handbook for Research in American History - Francis Paul Prucha 1994-01-01

When the Handbook for Research in American History was first published, reviewers called it "an excellent tool for historians of all interests and levels of experience . . . simple to use, and concisely worded" (Western Historical Quarterly) and "an excellent work that fulfills its title in being portable yet well-filled" (Reference Reviews). The Journal of American History added, "It is not easy to produce a reference work that is utilitarian and enriching and does not duplicate existing works. Professor Prucha has done the job very well." This second, revised edition takes account of the revolution that is occurring in bibliographic science as printed reference works extend to electronic databases, CD-ROMs, and online networks such as the Internet. Focusing on and expanding the major section of the original Handbook, it provides information on traditional printed works, describes new guides and updated versions of old ones, notes the availability of reference works and of some full-text sources in electronic form, and discusses the usefulness to researchers of different kinds of material and the forms in which they are available. Extensive cross-referencing and a detailed index that includes authors, subjects, and titles enhance the book's usefulness.

A Time to Remember - Alexander Todd 1983-11-17

The autobiography of Lord Todd of Trumpington is a general account of his life until 1980 with emphasis on the events that shaped his career as a distinguished scientist. In 1957 Alexander Todd was awarded the Nobel Prize for Chemistry. From 1963 to 1965 he was President of the International Union of Pure and Applied Chemistry. For five years he was President of the Royal Society. He made major contributions to the advancement of science education in Britain, and in the University of Cambridge. This delightfully presented autobiography is supplemented by extracts from five Presidential Addresses to the Royal Society. This book will appeal to anyone who enjoys reading biography. It will also have a special interest for professional chemists and those who study the making on contemporary science policy in Britain.

Cambridge IGCSE® Chemistry Revision Guide - Roger Norris 2015-10-08

The Cambridge IGCSE Chemistry Revision Guide supports students through their course, containing specifically designed features to help students apply their knowledge as they prepare for assessment. This Revision Guide offers support for students as they prepare for their Cambridge IGCSE Chemistry (0620) exams. Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples, Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes. These features have been specifically designed to help students apply their knowledge in exams. Written in a clear and straightforward tone, this Revision Guide is perfect for international learners.

Resources in Education - 1985-10

Chemical Engineering Design - Gavin Towler 2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

A Natural History Guide to Great Smoky Mountains National Park - Donald W. Linzey 2008

The Great Smoky Mountains National Park is one of America's most beautiful and popular national parks. Located in the southern Appalachian Mountains of Tennessee and North Carolina, it is home to more than 100,000 species of plants and animals. The grandeur and sheer scale of the park has been captured in Donald W. Linzey's new book, *Natural History Guide to the Great Smoky Mountains National Park*. It is the most extensive volume available on the park's natural history. Written from the perspective of a naturalist who has spent over fifty years conducting research in the park, this volume not only discusses the park's plant and animal life but also explores the impact that civilization has played in altering the area's landscape. Linzey, who has been a major contributor to the All Taxa Biodiversity Inventory, a concentrated effort to identify every species of plant and animal living within the park, draws from this deep reservoir of research. His book provides a thorough overview of everything a visitor to the park would need to know, without complex jargon. Both casual readers and those more interested in the ecology of the Great Smoky Mountains will find this book an enlightening and educational guide. Donald W. Linzey, a wildlife biologist and ecologist, is professor of biology at Wytheville Community College in Wytheville, Virginia. He is an authority on the mammals of the Great Smoky Mountains National Park and its environs.

The Cambridge Planetary Handbook - Michael E. Bakich 2000-02-03

Comprehensive reference text on planetary astronomy written for the general reader.

Risk Assessment in Environmental Management - D. Kofi Asante-Duah 1998-10-20

Provides a concise and comprehensive overview of the many facets/aspects relating to chemical risk assessments. It is a superb introduction for anyone needing to have a knowledge of how to conduct, evaluate or review risk assessment for environmental toxicants. Environmental contamination issues are a complex problem with worldwide implications. Risk assessment is a tool used to organize structure, and compile scientific information in order to help identify existing hazardous situations or problems, anticipate potential problems, establish priorities, and provide a basis for regulatory controls and/or corrective actions. This book presents some very important tools and methodologies that can be used to help resolve environmental contamination problems in a consistent, efficient and cost-effective way. It represents a collection and synthesis of the principal elements of the risk assessment process that pertain to environmental contamination problems. It offers an understanding of the scientific basis of risk assessment and its applications in the environmental industry - including a portrayal of how the risk assessment process fits into regulatory policies. Written for both the novice and experienced professional, this book will serve as a useful reference for anyone encountering risk assessment in environmental management programs.

Orbitals in Chemistry - Victor M. S. Gil 2000-08-10

This text presents a unified and up-to-date discussion of the role of atomic and molecular orbitals in chemistry, from the quantum mechanical foundations to the recent developments and applications. The discussion is mainly qualitative, largely based on symmetry arguments. It is felt that a sound mastering of the concepts and qualitative interpretations is needed, especially when students are becoming more and more familiar with numerical calculations based on atomic and molecular orbitals. The text is mathematically less demanding than most traditional quantum chemistry books but still retains clarity and rigour. The physical insight is maximized and abundant illustrations are used. The relationships between the more formal quantum mechanical formalisms and the traditional chemical descriptions of chemical bonding are critically established. This book is of primary interest to undergraduate chemistry students and others taking courses of which chemistry is a significant part.

Cambridge IGCSE Biology Revision Guide - Igcse Letts Cambridge 2017-04-18

Letts Cambridge IGCSE(R) Chemistry Revision Guide provides clear and accessible revision content to support all students, with lots of practice opportunities to build your confidence and help you prepare for your Cambridge IGCSE(R) Chemistry assessments. Covering the latest Cambridge IGCSE(R) Chemistry syllabus, this revision guide includes: - Clear and concise syllabus coverage, with the extended material clearly differentiated- Topics in short, user-friendly sections to help you plan your revision in manageable chunks- Revision tips to provide essential assessment guidance- Quick test and exam-style practice questions for every topic, so you can check your progress and develop your exam skills- A supporting glossary with easy-to-understand definitions of key terms

Strategic Alliances as Social Facts - Mark De Rond 2003-06-19

How can we explain a proliferation of alliances when the probability of failure is higher than success? And why have we emphasized their order, manageability and predictability whilst acknowledging that they tend to be experienced as messy, politically charged and unpredictable? Mark de Rond, in this provocative book, sets out to address such paradoxes. Based on in-depth case studies of three major biotechnology alliances, he suggests that we need theories to explain idiosyncrasy as well as social order. He argues that such theories must allow for social conduct to be active and self-directed but simultaneously inert and constrained, thus permitting voluntarism, determinism, and serendipity alike to explain causation in alliance life. The book offers a highly original combination of insights from social theory and intellectual history with more mainstream strategic management and organizations literature. It is a refreshing and thought-provoking analysis that will appeal to practitioner and academic researcher alike.

Chemistry of the Upper and Lower Atmosphere - Barbara J. Finlayson-Pitts 2000

Here is the most comprehensive and up-to-date treatment of one of the hottest areas of chemical research. The treatment of fundamental kinetics and photochemistry will be highly useful to chemistry students and their instructors at the graduate level, as well as postdoctoral fellows entering this new, exciting, and well-funded field with a Ph.D. in a related discipline (e.g., analytical, organic, or physical chemistry, chemical physics, etc.). Chemistry of the Upper and Lower Atmosphere provides postgraduate researchers and teachers with a uniquely detailed, comprehensive, and authoritative resource. The text bridges the "gap" between the fundamental chemistry of the earth's atmosphere and "real world" examples of its application to the development of sound scientific risk assessments and associated risk management control strategies for both tropospheric and stratospheric pollutants. Key Features *Serves as a graduate textbook and "must have" reference for all atmospheric scientists * Provides more than 5000 references to the literature through the end of 1998 * Presents tables of new actinic flux data for the troposphere and stratosphere (0-40km) * Summarizes kinetic and photochemical data for the troposphere and stratosphere *Features problems at the end of most chapters to enhance the book's use in teaching * Includes applications of the OZIPR box model with comprehensive chemistry for student use

The Nobel Scientists - George Thomas Kurian 2002

A reference book containing profiles of the scientists who have won the Nobel Prize in physics, chemistry, and medicine/physiology.

Cambridge International AS & A Level Chemistry Practical Workbook - Roger Norris 2020-05-31

For first examination from 2022, these resources meet the real needs of the chemistry classroom. This practical write-in workbook is the perfect companion for the coursebook. It contains step-by-step guided investigations and practice

questions for Cambridge International AS & A Level Chemistry teachers and students. Through practical investigation, it provides opportunities to develop skills- planning, identifying equipment, creating hypotheses, recording results, analysing data, and evaluating. The workbook is ideal for teachers who find running practical experiments difficult due to lack of time, resources or support. Sample data- if students can't do the experiments themselves - and answers to the questions are in the teacher's resource.

Complete Chemistry - Rosemarie Gallagher 2000

Complete Chemistry is a revised and enlarged edition of the popular GCSE Chemistry improved to bring it totally up-to-date. This book covers all syllabuses with core material, for Double Award, and extension material, for Science: Chemistry. The breadth and depth is sufficient to stretch your students aiming for the top grades and makes it an excellent foundation for those intending to progress to advanced level chemistry. Key Points: · Now includes all the necessary topics for IGCSE · Concepts and principles of chemistry presented in a clear, straightforward style · Lively and colourful coverage of the relevance of chemistry in the real world · End of chapter testing with more challenging and structured questions · Examination style questions · Pagination remains the same as GCSE Chemistry so that the two can be used alongside each other