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Inorganic Chemistry J. E. House 2012-10-30 This textbook provides essential information for students of inorganic chemistry or for chemists pursuing self-study. The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly. Inorganic Chemistry 2E is divided into five major themes (structure, condensed phases, solution chemistry, main group and coordination compounds) with several chapters in each. There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures, to behavior of solids, etc. The author emphasizes fundamental principles including molecular structure, acid-base chemistry, coordination chemistry, ligand field theory, and solid state chemistry -and presents topics in a clear, concise manner. There is a reinforcement of basic principles throughout the book. For example, the hard-soft interaction principle is used to explain hydrogen bond strengths, strengths of acids and bases, stability of coordination compounds, etc. The book contains a balance of topics in theoretical and descriptive chemistry. New to this Edition: New and improved illustrations including symmetry and 3D molecular orbital representations Expanded coverage of spectroscopy, instrumental techniques, organometallic and bio-inorganic chemistry More in-text worked-out examples to encourage active learning and to prepare students for their exams • Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use. • Discussion of elements begins with survey chapters focused on the main groups, while later chapters cover the elements in greater detail. • Each chapter opens with narrative introductions and includes figures, tables, and end-of-chapter problem sets.

English Alive Alan Etherton 2004 English Alive is a four-book series designed specifically to meet the needs of English students in Caribbean secondary schools. The series adopts a lively and exciting new approach to the study of English, helping students to become more confident in their use of English and ultimately succeed at their exam.

Chemistry for Sustainable Development Minu Gupta Bhowon 2012-01-08 Chemistry for Sustainable Development is a collection of selected papers by the participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of "Chemistry for Sustainable Development" held in Mauritius in July 2010. In light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry.

The Psychology of Effective Learning and Teaching Matt Jarvis 2005 This book covers the psychology of teaching and learning and focuses on applying up-to-date, as well as traditional, theory in the classroom. It covers a range of issues that most concern the new teacher, written clearly and at an appropriate level. Highly accessible and contemporary, The Psychology of Learning and Teaching covers newer modular theories and their implications for learning styles.

Visible Learning for Teachers John Hattie 2012-03-15 In November 2008, John Hattie's ground-breaking book Visible Learning synthesised the results of more than fifteen years research involving millions of students and represented the biggest ever collection of evidence-based research into what actually works in schools to improve learning. Visible Learning for Teachers takes the next step and brings those ground breaking concepts to a completely new audience. Written for students, pre-service and in-service teachers, it explains how to apply the principles of Visible Learning to any classroom anywhere in the world. The author offers concise and user-friendly summaries of the most successful interventions and offers practical step-by-step guidance to the successful implementation of visible learning and visible teaching in the classroom. This book: links the biggest ever research project on teaching strategies to practical classroom implementation champions both teacher and student perspectives and contains step by step guidance including lesson preparation, interpreting learning and feedback during the lesson and post lesson follow up offers checklists, exercises, case studies and best practice scenarios to assist in raising achievement includes whole school checklists and advice for school leaders on facilitating visible learning in their institution now includes additional meta-analyses bringing the total cited within the research to over 900 comprehensively covers numerous areas of learning activity including pupil motivation, curriculum, meta-cognitive strategies, behaviour, teaching strategies, and classroom management. Visible Learning for Teachers is a must read for any student or teacher who wants an evidence based answer to the question: 'how do we maximise achievement in our schools?'

Advanced Chemistry for You Lawrie Ryan 2000 Designed to be motivating to the student, this book includes features that are suitable for individual learning. It covers the AS-Level and core topics of almost all A2 specifications. It provides many questions for students to develop their competence. It also includes sections on 'Key Skills in Chemistry', 'Practical Skills' and 'Study Skills'.

A-level Chemistry E. N. Ramsden 2000 Each topic is treated from the beginning, without assuming prior knowledge. Each chapter starts with an opening section covering an application. These help students to understand the relevance of the topic: they are motivational and they make the text more accessible to the majority of students. Concept Maps have been added, which together with Summaries throughout, aid understanding of main ideas and connections between topics. Margin points highlight key points, making the text more accessible for learning and revision. Checkpoints in each chapter test students' understanding and support their private study. A selection of questions are included at the end of each chapter, many form past examination papers. Suggested answers are provided in the Answers Key.

Physics and Engineering of Radiation Detection Syed Naem Ahmed 2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. The second edition is fully revised and provides the latest developments in detector technology and analyses software. Also, more material related to measurements in particle physics and a complete solutions manual have been added. Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked-out examples and end-of-chapter problems Detailed discussions on different detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems

Teaching Today Geoff Petty 2009 The edition has been updated to become more PGCE focused. In particular, it now includes signposting for coverage of the FENTO standards and further coverage of key areas such as interactive whiteboard training.

Environmental Systems and Societies Jill Rutherford 2016-12-01 Equip your learners with the skills central to success. Enabling you to build, extend and perfect the skills crucial to achievement, this text strengthens performance in all areas of assessment. With a focus on practical work that accessibly connects material to real, global issues, it develops a thorough foundation of skills that drive performance.

Good Practice In Science Teaching: What Research Has To Say Osborne, Jonathan 2010-05-01 This volume provides a summary of the findings that educational research has to offer on good practice in school science teaching. It offers an overview of scholarship and research in the field, and introduces the ideas and evidence that guide it.

A2 Physics Dave Kelly 2010-03 Checked by AQA examiners, this is a revised and updated edition of Collins Student Support Materials for AQA that fully supports the 2008 AQA (A) Physics A2 specification for Unit 5 and the Option Units. All the knowledge you need is summarised so you can use it as a study guide or revision guide to ensure success in your exam. This book provides a clear and easy path to learning all the essential information in the 2008 AQA (A) Physics A2 specification. It is the perfect way to support your studies and an excellent revision guide. It includes: - Updated notes on Unit 5 Nuclear and Thermal Physics and new notes on units 5A Astrophysics, 5B Medical Physics, 5C Applied Physics and 5D Turning Points in Physics -How Science Works guidance to help tackle this new key focus in the specification -Examiner's Notes boxes to give advice on exam technique and warn of common misconceptions -Essential Notes boxes to highlight crucial information -Definition boxes and a comprehensive glossary to help memorise essential terminology -Practice questions to help prepare for exams -An index for quick reference

An Introduction to Counselling John McLeod 1998 This text is written in a clear, accessible style, covering all the core approaches to counselling. This second edition includes new chapters on systemic, feminist, narrative and multiculturalist approaches to counselling.

Fundamentals of Medicinal Chemistry Gareth Thomas 2004-04-20 Provides a concise introduction to the chemistry of therapeutically active compounds, written in a readable and accessible style. The title begins by reviewing the structures and nomenclature of the more common classes of naturally occurring compounds found in biological organisms. An overview of medicinal chemistry is followed by chapters covering the discovery and design of drugs, pharmacokinetics and drug metabolism. The book concludes with a chapter on organic synthesis, followed by a brief look at drug development from the research stage through to marketing the final product. The text assumes little in the way of prior biological knowledge, relevant biology is included through biological topics, examples and the Appendices. Incorporates summary sections, examples, applications and problems Each chapter contains an additional summary section and solutions to the questions are provided at the end of the text Invaluable for undergraduates studying within the chemical, pharmaceutical and life sciences.

Algae Based Polymers, Blends, and Composites Khalid Mahmood Zia 2017-06-19 Algae Based Polymers, Blends, and Composites: Chemistry, Biotechnology and Material Sciences offers considerable detail on the origin of algae, extraction of useful metabolites and major compounds from algal bio-mass, and the production and future prospects of sustainable polymers derived from algae, blends of algae, and algae based composites. Characterization methods and processing techniques for algae-based polymers and composites are discussed in detail, enabling researchers to apply the latest techniques to their own work. The conversion of bio-mass into high value chemicals, energy, and materials has ample financial and ecological importance, particularly in the era of declining petroleum reserves and global warming. Algae are an important source of biomass since they flourish rapidly and can be cultivated almost everywhere. At present the majority of naturally produced algal biomass is an unused resource and normally is left to decompose. Similarly, the use of this enormous underexploited biomass is mainly limited to food consumption and as bio-fertilizer. However, there is an opportunity here for materials scientists to explore its potential as a feedstock for the production of sustainable materials. Provides detailed information on the extraction of useful compounds from algal biomass Highlights the development of a range of polymers, blends, and composites Includes coverage of characterization and processing techniques, enabling research scientists and engineers to apply the information to their own research and development Discusses potential applications and future prospects of algae-based biopolymers, giving the latest insight into the future of these sustainable materials

Chemistry Lawrie Ryan 2002 This is a Foundation GCSE Chemistry course written to cover all the major specifications, preparing students for Single and Double Award Chemistry. Exam questions are included throughout the texts.

An Introduction to Polymer Physics David I. Bower 2002-05-30 Publisher Description

Environment and Tourism Andrew Holden 2000 For many people, holidays are an increasingly central feature of contemporary western society. The tourism industry has expanded rapidly since 1950, but this book poses the significant question of consequent environmental impacts: are environments being benefited or damaged, by the tourist who visit them? A well-balanced introductory text, this topical book on the relationships between tourism, society and the environment, examines 'tourism' and 'environment' in detail, and gives a historical overview of the growth of the tourism industry. It discusses how the tourism industry markets physical and cultural environments to be consumed by the tourist, and the consequences of the tourism they then attract. It explores: * how the economics of tourism can be adopted in a positive way to aid conservation * whether the concept of sustainability can be applied to tourism * provides a critique of the 'new' forms of tourism, that have developed in recent years. An extensive range of international case studies from both the developed and developing world are used to illustrate the theoretical ideas presented, and to aid the student, it includes end of chapter summaries, further reading guides and boxed vignettes focusing on contemporary environmental issues and debates.

Key Maths 2000

Biology with Human Biology John Adds 2001 Make the Grade in AS Biology with Human Biology has been specially written to give students comprehensive exam support for senior secondary level Biology and Human Biology. It is a comprehensive revision guide for students that includes a bank of activities and questions for use throughout the course, with exam questions, including synoptic questions, to help students fully prepare for examinations.

Food Processing Technology P.J. Fellows 2009-07-28 Widely regarded as a standard work in its field, this book introduces the range of processing techniques that are used in food manufacturing. It explains the principles of each process, the processing equipment used, operating conditions and the effects of processing on micro-organisms that contaminate foods, the biochemical properties of foods and their sensory and nutritional qualities. The book begins with an overview of important basic concepts. It describes unit operations that take place at ambient temperature or involve minimum heating of foods. Subsequent chapters examine operations that heat foods to preserve them or alter their eating quality, and explore operations that remove heat from foods to extend their shelf life with minimal changes in nutritional quality or sensory characteristics. Finally, the book reviews post-processing operations, including packaging and distribution logistics. The third edition has been substantially rewritten, updated and extended to include the many developments in food technology that have taken place since the second edition was published in 2000. Nearly all unit operations have undergone significant developments, and these are reflected in the large amount of additional material in each chapter. In particular, advances in microprocessor control of equipment, 'minimal' processing technologies, genetic modification of foods, functional foods, developments in 'active' or 'intelligent' packaging, and storage and distribution logistics are described. Developments in technologies that relate to cost savings, environmental improvement or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne micro-organisms are included for the first time.

English Alive! Book 3 Nelson Thornes Caribbean English Alan Etherton 2014-11 English Alive! is a four-book series designed specifically to meet the needs of English students in Caribbean secondary schools. The series adopts a lively and exciting new approach to the study of English, helping students to become more confident in their use of English and ultimately succeed at their exam.

The School Science Review 2002

Children's Books in Print, 2007 2006

New Biology for You Gareth Williams 2002-03-25 Biology For You has been updated to offer comprehensive coverage of the revised GCSE specifications. It can be used with either mixed ability or streamed sets and higher tier materials are clearly marked.

OCR A level Chemistry Student Mike Smith 2015-06-26 This is an OCR endorsed resource Stretch and challenge your students' knowledge and understanding of Chemistry, build their mathematical and practical skills, and provide plenty of assessment guidance with this OCR Year 1 Student Book. - Build understanding with a summary of prior knowledge and diagnostic questions at the start of each chapter to help bring students up to speed -

Support practical assessment with Practical Skill summaries that help develop your students' knowledge and skills - Test understanding and provide plenty of practice to assess progression, with Test Yourself Questions and multiple choice questions - Provide mathematical support with examples of method integrated throughout and a dedicated 'Maths in Chemistry' chapter - Develop understanding with free online access to Test yourself Answers, an Extended Glossary, Learning Outcomes and Topic Summaries OCR A Level Chemistry Student Book 1 includes AS Level

Fundamentals of Molecular Symmetry P.R. Bunker 2018-10-03 Winner of a 2005 CHOICE Outstanding Academic Book Award Molecular symmetry is an easily applied tool for understanding and predicting many of the properties of molecules. Traditionally, students are taught this subject using point groups derived from the equilibrium geometry of the molecule. Fundamentals of Molecular Symmetry shows how to set up symmetry groups for molecules using the more general idea of energy invariance. It is no more difficult than using molecular geometry and one obtains molecular symmetry groups. The book provides an introductory description of molecular spectroscopy and quantum mechanics as the foundation for understanding how molecular symmetry is defined and used. The approach taken gives a balanced account of using both point groups and molecular symmetry groups. Usually the point group is only useful for isolated, nonrotating molecules, executing small amplitude vibrations, with no tunneling, in isolated electronic states. However, for the chemical physicist or physical chemist who wishes to go beyond these limitations, the molecular symmetry group is almost always required.

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.

International GCSE Chemistry for Oxford International AQA Examinations Lawrie Ryan 2016-07-03 The only textbook that fully supports the Oxford AQA International GCSE Chemistry specification (9202), for first teaching in September 2016. The engaging, international approach builds scientific skills and knowledge, preparing students for the Oxford AQA International GCSE Chemistry exam and supporting their progression to A Level study. **Sample Preparation Techniques in Analytical Chemistry** Somenath Mitra 2004-04-07 The importance of accurate sample preparation techniques cannot be overstated—meticulous sample preparation is essential. Often overlooked, it is the midway point where the analytes from the sample matrix are transformed so they are suitable for analysis. Even the best analytical techniques cannot rectify problems generated by sloppy sample pretreatment. Devoted entirely to teaching and reinforcing these necessary pretreatment steps, **Sample Preparation Techniques in Analytical Chemistry** addresses diverse aspects of this important measurement step. These include: * State-of-the-art extraction techniques for organic and inorganic analytes * Sample preparation in biological measurements * Sample pretreatment in microscopy * Surface enhancement as a sample preparation tool in Raman and IR spectroscopy * Sample concentration and clean-up methods * Quality control steps Designed to serve as a text in an undergraduate or graduate level curriculum, **Sample Preparation Techniques in Analytical Chemistry** also provides an invaluable reference tool for analytical chemists in the chemical, biological, pharmaceutical, environmental, and materials sciences.

English Alive! Book 2 Nelson Thornes Caribbean English Alan Etherton 2014-11 **English Alive!** is a four-book series designed specifically to meet the needs of English students in Caribbean secondary schools. The series adopts a lively and exciting new approach to the study of English, helping students to become more confident in their use of English and ultimately succeed at their exam.

Business Studies: IGCSE Chris J. Nuttall 2002-06-20 Written to cover the IGCSE syllabus, **Business Studies: IGCSE** is divided into five sections, which are in turn divided into units that provide convenient and flexible areas of learning. Each unit has a brief introduction followed by a business-in-context section and questions designed to help students understand the implications of the topic. Each unit contains definitions of key terms and ends with a summary of the topic covered.

Drug Metabolism Mino R. Caira 2006-07-10 **Drug Metabolism: Current Concepts** provides a comprehensive understanding of the processes that take place following ingestion of a medicinal agent or xenobiotic, with an emphasis on the crucial role of metabolism (biotransformation). How a sound knowledge of these phenomena is incorporated into the design of effective new drug candidates is also explained. The user-friendly text focuses on concepts rather than extraneous details and is supported by many illustrated examples of biotransformations as well as frequent references to current critical reviews and articles highlighting the nature of research objectives in this vibrant area of medicinal development. The final topic on strategies for drug design relies on the background provided by the rest of the book. This book is ideally suited as an advanced text for courses in drug metabolism for students of medicine, pharmacy, pharmacology, biochemistry; and for courses in drug design and drug delivery for students of medicinal chemistry. It is also appropriate for professional seminars or courses that relate to the fate of a drug in the body, drug interactions, adverse reactions and drug design.

New Coordinated Science: Chemistry Students' Book RoseMarie Gallagher 2001-07-19 Provides information in manageable chunks, which is reinforced by questions and activities that encourage students to consider the practical application of science to everyday life. This work is useful for Higher Tier GCSE students.

English Alive! Book 1 Nelson Thornes Caribbean English Alan Etherton 2014-11 **English Alive!** is a series designed specifically to meet the needs of English students in Caribbean secondary schools. The book covers the key areas of reading comprehension, listening and speaking, writing grammar and language usage and vocabulary development. Particular attention is given to the often challenging area of poetry. The book also covers common errors made by students. A reference section contains verb tables, including a section on tenses (notoriously difficult for learners), irregular verbs and a glossary of language words and literary terms.--page [4] of cover.

Visible Learning John Hattie 2008-11-19 This unique and ground-breaking book is the result of 15 years research and syntheses over 800 meta-analyses on the influences on achievement in school-aged students. It builds a story about the power of teachers, feedback, and a model of learning and understanding. The research involves many millions of students and represents the largest ever evidence based research into what actually works in schools to improve learning. Areas covered include the influence of the student, home, school, curricula, teacher, and teaching strategies. A model of teaching and learning is developed based on the notion of visible teaching and visible learning. A major message is that what works best for students is similar to what works best for teachers – an attention to setting challenging learning intentions, being clear about what success means, and an attention to learning strategies for developing conceptual understanding about what teachers and students know and understand. Although the current evidence based fad has turned into a debate about test scores, this book is about using evidence to build and defend a model of teaching and learning. A major contribution is a fascinating benchmark/dashboard for comparing many innovations in teaching and schools.

A-level Physics Roger Muncaster 1993 This extensively revised 4th edition of an established physics text offers coverage of the recent developments at A/AS-Level, with each topic explained in straightforward terms, starting at an appropriate Level (7/8) of the National Curriculum

Fundamentals of Geomorphology Richard John Huggett 2011-03-15 This extensively revised, restructured, and updated edition continues to present an engaging and comprehensive introduction to the subject, exploring the world's landforms from a broad systems perspective. It covers the basics of Earth surface forms and processes, while reflecting on the latest developments in the field. Fundamentals of Geomorphology begins with a consideration of the nature of geomorphology, process and form, history, and geomorphic systems, and moves on to discuss: structure: structural landforms associated with plate tectonics and those associated with volcanoes, impact craters, and folds, faults, and joints process and form: landforms resulting from, or influenced by, the exogenic agencies of weathering, running water, flowing ice and meltwater, ground ice and frost, the wind, and the sea; landforms developed on limestone; and landscape evolution, a discussion of ancient landforms, including palaeosurfaces, stagnant landscape features, and evolutionary aspects of landscape change. This third edition has been fully updated to include a clearer initial explanation of the nature of geomorphology, of land surface process and form, and of land-surface change over different timescales. The text has been restructured to incorporate information on geomorphic materials and processes at more suitable points in the book. Finally, historical geomorphology has been integrated throughout the text to reflect the importance of history in all aspects of geomorphology. Fundamentals of Geomorphology provides a stimulating and innovative perspective on the key topics and debates within the field of geomorphology. Written in an accessible and lively manner, it includes guides to further reading, chapter summaries, and an extensive glossary of key terms. The book is also illustrated throughout with over 200 informative diagrams and attractive photographs, all in colour.

Analysis and Performance of Fiber Composites Bhagwan D. Agarwal 1990-10-08 Having fully established themselves as workable engineering materials, composite materials are now increasingly commonplace around the world. Serves as both a text and reference guide to the behavior of composite materials in different engineering applications. Revised for this Second Edition, the text includes a general discussion of composites as material, practical aspects of design and performance, and further analysis that will be helpful to those engaged in research on composites. Each chapter closes with references for further reading and a set of problems that will be useful in developing a better understanding of the subject.

A Concise Course in Advanced Level Statistics Janet Crawshaw 2001 New in this edition is a 20 page section on the use of ICT resources in teaching and learning about statistics. The book also includes over 300 worked examples and advice on how to break down calculations into easy stages.

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