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Inorganic Chemistry This series reflects the breadth of modern research in inorganic chemistry and fulfils the need for advanced texts. The series covers the whole range of inorganic and physical chemistry, solid state chemistry, coordination chemistry, main group chemistry and bioinorganic chemistry.

Chemical Bonds A Dialog
Jeremy K. Burdett
The University of Chicago, USA

Understanding the nature of the chemical bond is the key to understanding all chemistry, be it inorganic, physical, organic or

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biochemistry. In the form of a question and answer tutorial the fundamental concepts of chemical bonding are explored. These range from the nature of the chemical bond, via the regular hexagonal structure of benzene and the meaning of the term 'metallic bond', to d-orbital involvement in hypervalent compounds and the structure of N_2O . Chemical Bonds: A Dialog provides * a novel format in terms of a dialog between two scientists * insights into many key questions concerning chemical bonds * an orbital approach to quantum chemistry

An American bioengineering research firm erects a theme park on a Caribbean island, complete with living dinosaurs, and invites

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a group of scientists to be its first terrified guests.

Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

Lawrie's Meat Science has established itself as a standard

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work for both students and professionals in the meat industry. Its basic theme remains the central importance of biochemistry in understanding the production, storage, processing and eating quality of meat. At a time when so much controversy surrounds meat production and nutrition, Lawrie's meat science, written by Lawrie in collaboration with Ledward, provides a clear guide which takes the reader from the growth and development of meat animals, through the conversion of muscle to meat, to the point of consumption. The seventh edition includes details of significant advances in meat science which have taken place in recent years, especially in areas of eating

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quality of meat and meat biochemistry. A standard reference for the meat industry Discusses the importance of biochemistry in production, storage and processing of meat Includes significant advances in meat and meat biochemistry

Hebden : Chemistry 11, a Workbook for Students

Bioinorganic Vanadium Chemistry An Introduction and Guide

Orbital Interaction Theory of Organic Chemistry

Education Reimagined

This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide

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comprehensive, up-to-date coverage of the core and extended curriculum topics specified in the IGCSE Chemistry syllabus. The book is supported by a CD-ROM containing extensive revision and exam practice questions, background information and reference material.

Grade level: 11, s, t.

At the heart of coordination chemistry lies the coordinate bond, in its simplest sense arising from donation of a pair of electrons from a donor atom to an empty orbital on a central metalloid or metal. Metals overwhelmingly exist as their cations, but these are rarely met 'naked' – they are clothed in an array of other atoms, molecules or

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ions that involve coordinate covalent bonds (hence the name coordination compounds). These metal ion complexes are ubiquitous in nature, and are central to an array of natural and synthetic reactions. Written in a highly readable, descriptive and accessible style Introduction to Coordination Chemistry describes properties of coordination compounds such as colour, magnetism and reactivity as well as the logic in their assembly and nomenclature. It is illustrated with many examples of the importance of coordination chemistry in real life, and includes extensive references and a bibliography. Introduction to Coordination Chemistry is a

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comprehensive and insightful discussion of one of the primary fields of study in Inorganic Chemistry for both undergraduate and non-specialist readers.

Life of Pi is a masterful and utterly original novel that is at once the story of a young castaway who faces immeasurable hardships on the high seas, and a meditation on religion, faith, art and life that is as witty as it is profound. Using the threads of all of our best stories, Yann Martel has woven a glorious spiritual adventure that makes us question what it means to be alive, and to believe.

Chemistry

Dairy Processing Handbook

Jurassic Park

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IGCSE Chemistry

Poultry Meat Processing and Quality

This book is a basic reference providing concise, accurate definitions of the key terms and concepts of organic chemistry. Not simply a listing of organic compounds, structures, and nomenclatures, the book is organized into topical chapters in which related terms and concepts appear in close proximity to one another, giving context to the information and helping to make fine distinctions more understandable. Areas covered include: bonding, symmetry, stereochemistry,

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types of organic compounds, reactions, mechanisms, spectroscopy, and photochemistry.

A best-selling mechanistic organic chemistry text in Germany, this text's translation into English fills a long-existing need for a modern, thorough and accessible treatment of reaction mechanisms for students of organic chemistry at the advanced undergraduate and graduate level. Knowledge of reaction mechanisms is essential to all applied areas of organic chemistry; this text fulfills that need by presenting the right material at the right level.

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Fundamentals of Combustion Processes is designed as a textbook for an upper-division undergraduate and graduate level combustion course in mechanical engineering. The authors focus on the fundamental theory of combustion and provide a simplified discussion of basic combustion parameters and processes such as thermodynamics, chemical kinetics, ignition, diffusion and pre-mixed flames. The text includes exploration of applications, example exercises, suggested homework problems and videos of laboratory

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demonstrations

Consciousness, 'the last great mystery for science', remains a hot topic. How can a physical brain create our experience of the world? What creates our identity? Do we really have free will? Could consciousness itself be an illusion? Exciting new developments in brain science are continuing the debates on these issues, and the field has now expanded to include biologists, neuroscientists, psychologists, and philosophers. This controversial book clarifies the potentially confusing arguments, and the major theories, whilst also outlining the

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amazing pace of discoveries in neuroscience. Covering areas such as the construction of self in the brain, mechanisms of attention, the neural correlates of consciousness, and the physiology of altered states of consciousness, Susan Blackmore highlights our latest findings. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and

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enthusiasm to make interesting and challenging topics highly readable.

Chemical Bonds

Pharmaceutical Compounding
and Dispensing

The Central Science

Laboratory Safety for Chemistry
Students

Handbook of Chemical
Engineering Calculations

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the

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correct ISBN. Several versions of MyLab(tm)and Mastering(tm) platforms exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a Course ID, provided by your instructor, to register for and use MyLab and Mastering products. For courses in two-semester general chemistry. Accurate, data-driven authorship with expanded interactivity leads to greater student engagement Unrivaled problem sets, notable scientific accuracy and currency, and remarkable clarity have made Chemistry: The Central Science the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and leads to greater student success

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in general chemistry by building on the expertise of the dynamic author team of leading researchers and award-winning teachers. In this new edition, the author team draws on the wealth of student data in

Mastering(tm)Chemistry to identify where students struggle and strives to perfect the clarity and effectiveness of the text, the art, and the exercises while addressing student misconceptions and encouraging thinking about the practical, real-world use of chemistry. New levels of student interactivity and engagement are made possible through the enhanced eText 2.0 and Mastering Chemistry, providing seamlessly integrated videos and personalized learning throughout the course . Also available with Mastering Chemistry Mastering(tm) Chemistry is the leading

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online homework, tutorial, and engagement system, designed to improve results by engaging students with vetted content. The enhanced eText 2.0 and Mastering Chemistry work with the book to provide seamless and tightly integrated videos and other rich media and assessment throughout the course. Instructors can assign interactive media before class to engage students and ensure they arrive ready to learn. Students further master concepts through book-specific Mastering Chemistry assignments, which provide hints and answer-specific feedback that build problem-solving skills. With Learning Catalytics(tm) instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups.

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Mastering Chemistry now provides students with the new General Chemistry Primer for remediation of chemistry and math skills needed in the general chemistry course. If you would like to purchase both the loose-leaf version of the text and MyLab and Mastering, search for: 0134557328 / 9780134557328 Chemistry: The Central Science, Books a la Carte Plus MasteringChemistry with Pearson eText -- Access Card Package Package consists of: 0134294165 / 9780134294162 MasteringChemistry with Pearson eText -- ValuePack Access Card -- for Chemistry: The Central Science 0134555635 / 9780134555638 Chemistry: The Central Science, Books a la Carte Edition

Understanding of the interactions of milk proteins in complex food systems

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continues to progress, resulting in specialized milk-protein based applications in functional foods, and in protein ingredients for specific health applications. Milk Proteins is the first and only presentation of the entire dairy food chain – from the source to the nutritional aspects affecting the consumer. With focus on the molecular structures and interactions of milk proteins in various processing methods, Milk Proteins presents a comprehensive overview of the biology and chemistry of milk, as well as featuring the latest science and developments. Significant insight into the use of milk proteins from an industry viewpoint provides valuable application-based information. Those working with food and nutritional research and product development will find this book useful. 20% new chapter

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content — full revision throughout New chapters address: role of milk proteins in human health; aspects of digestion and absorption of milk proteins in the GIT; consumer demand and future trends in milk proteins; and world supply of proteins with a focus on dairy proteins Internationally recognized authors and editors bring academic and industrial insights to this important topic

by Karen Timberlake. This workbook guides students through basic skills, mathematical review, and successful problem-solving techniques. Practice tests and solutions to selected text problems also are included.

Pharmacists have been responsible for compounding medicines for centuries. Although most modern medicines are not compounded in a local pharmacy environment, there are

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still occasions when it is imperative that pharmacists have this knowledge. Pharmaceutical Compounding and Dispensing provides a comprehensive guide to producing extemporaneous formulations safely and effectively. The book covers three core sections: the history of compounding; pharmaceutical forms and their preparation; product formulae. This is a modern, detailed and practical guide to the theory and practice of extemporaneous compounding and dispensing. Fully revised and updated, this new edition will be an indispensable reference for pharmacy students and practicing pharmacists. Supplementary videos demonstrating various dispensing procedures can be viewed online.

Reaction Mechanisms

Principles of Food Sanitation

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Milk Proteins

Lawrie's Meat Science

Get a Higher Score in Less Time

There has been an explosion of interest in entrepreneurs in the popular media, as well as in business, policy, and education. But what do entrepreneurs do? What is entrepreneurship and why is it important? What is distinctive about entrepreneurs? And where do they come from? In this Very Short Introduction Paul Westhead and Mike Wright weave a pathway through the debates about entrepreneurship, providing a guide to the entrepreneurial process. They look at how the actions

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of entrepreneurs are shaped by the external environment and availability of resources, consider the types of organizations in which entrepreneurs can be found, and look at the diversity in their backgrounds, experience, and how they think and learn. Lastly, they consider the impact that entrepreneurs have on modern market economies and look at the future of entrepreneurship in our increasingly globalized world. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject

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area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

This Very Short Introduction might prove disappointing to those expecting an introduction to a very short man. Dispelling the myth of Napoleon Bonaparte's short stature, as well as the other rumors and legends, David A. Bell provides a concise, accurate, and lively portrait of Napoleon Bonaparte's character and career, situating him firmly

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in historical context. This book emphasizes the astonishing sense of human possibility--for both good and ill--that Napoleon represented. By his late twenties, Napoleon was already one of the greatest generals in European history. At thirty, he had become absolute master of Europe's most powerful country. In his early forties, he ruled a European empire more powerful than any since Rome, fighting wars that changed the shape of the continent and brought death to millions. Then everything collapsed, leading him to spend his last years in miserable

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exile in the South Atlantic. Bell underscores the importance of the French Revolution in understanding Napoleon's career. The revolution made possible the unprecedented concentration of political authority that Napoleon accrued, and his success in mobilizing human and material resources for war. Without the political changes brought about by the revolution, Napoleon could not have fought his wars. Without the wars, he could not have seized and held onto power. Though his virtual dictatorship betrayed the ideals of liberty and equality, his life and career were

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revolutionary.

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.

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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.

Large volume food processing and preparation operations have increased the need for improved sanitary practices from processing to consumption. This trend presents a challenge to every employee in the food processing and food preparation industry. Sanitation is an applied science for the attainment of hygienic

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conditions. Because of increased emphasis on food safety, sanitation is receiving increased attention from those in the food industry.

Traditionally, inexperienced employees with few skills who have received little or no training have been delegated sanitation duties. Yet sanitation employees require intensive training. In the past, these employees, including sanitation program managers, have had only limited access to material on this subject. Technical information has been confined primarily to a limited number of training manuals provided by

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regulatory agencies, industry and association manuals, and recommendations from equipment and cleaning compound firms. Most of this material lacks specific information related to the selection of appropriate cleaning methods, equipment, compounds, and sanitizers for maintaining hygienic conditions in food processing and preparation facilities. The purpose of this text is to provide sanitation information needed to ensure hygienic practices. Sanitation is a broad subject; thus, principles related to contamination, cleaning compounds, sanitizers, and

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cleaning equipment, and specific directions for applying these principles to attain hygienic conditions in food processing and food preparation are discussed. The discussion starts with the importance of sanitation and also includes regulatory requirements and voluntary sanitation programs including additional and updated information on Hazard Analysis Critical Control Points (HACCP).

Mass Spectrometry of Inorganic and Organometallic Compounds

AP Chemistry For Dummies

Science in Action 9

Chemistry of Spices

Life of Pi

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"...this substantial and engaging text offers a wealth of practical (in every sense of the word) advice...Every undergraduate laboratory, and, ideally, every undergraduate chemist, should have a copy of what is by some distance the best book I have seen on safety in the undergraduate laboratory."

Chemistry World, March 2011
Laboratory Safety for Chemistry Students is uniquely designed to accompany students throughout their four-year undergraduate education and beyond, progressively teaching them the skills and knowledge they need to learn their science and stay

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safe while working in any lab. This new principles-based approach treats lab safety as a distinct, essential discipline of chemistry, enabling you to instill and sustain a culture of safety among students. As students progress through the text, they'll learn about laboratory and chemical hazards, about routes of exposure, about ways to manage these hazards, and about handling common laboratory emergencies. Most importantly, they'll learn that it is very possible to safely use hazardous chemicals in the laboratory by applying safety principles that prevent and

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minimize exposures.

Continuously Reinforces and Builds Safety Knowledge and Safety Culture Each of the book's eight chapters is organized into three tiers of sections, with a variety of topics suited to beginning, intermediate, and advanced course levels.

This enables your students to gather relevant safety information as they advance in their lab work. In some cases, individual topics are presented more than once, progressively building knowledge with new information that's appropriate at different levels. A Better, Easier Way to Teach and Learn Lab

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Safety We all know that safety is of the utmost importance; however, instructors continue to struggle with finding ways to incorporate safety into their curricula. Laboratory Safety for Chemistry Students is the ideal solution: Each section can be treated as a pre-lab assignment, enabling you to easily incorporate lab safety into all your lab courses without building in additional teaching time. Sections begin with a preview, a quote, and a brief description of a laboratory incident that illustrates the importance of the topic. References at the end of each section guide your students

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to the latest print and web resources. Students will also find “Chemical Connections” that illustrate how chemical principles apply to laboratory safety and “Special Topics” that amplify certain sections by exploring additional, relevant safety issues. Visit the companion site at <http://userpages.wittenberg.edu/dfinsterr/LSCS/>.

Gearing up for the AP Chemistry exam? AP Chemistry For Dummies is packed with all the resources and help you need to do your very best. This AP Chemistry study guide gives you winning test-taking tips, multiple-choice strategies, and topic

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guidelines, as well as great advice on optimizing your study time and hitting the top of your game on test day. This user-friendly guide helps you prepare without perspiration by developing a pre-test plan, organizing your study time, and getting the most out of your AP course. You'll get help understanding atomic structure and bonding, grasping atomic geometry, understanding how colliding particles produce states, and much more. Two full-length practice exams help you build your confidence, get comfortable with test formats, identify your strengths and weaknesses, and

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focus your studies. Discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple-choice strategy Figure out displacement, combustion, and acid-base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts, tasks, equipment, and safety Analyze laboratory data Use practice exams to maximize your score AP Chemistry For Dummies gives you the support, confidence, and test-taking know-

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how you need to demonstrate your ability when it matters most. The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of 'critical thinking'

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exercises as well as new animations, an audio-glossary, the unique Body Spectrum© online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn't English. Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear, no nonsense writing style helps make learning easy

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Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum© online colouring and self-test software, and helpful weblinks Includes basic pathology and pathophysiology of important diseases and disorders Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text,

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plus a glossary and an appendix of normal biological values.

Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English All new illustration programme brings the book right up-to-date for today's student Helpful 'Spot Check' questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and/or life threatening diseases and disorders Review and Revise end-of-chapter exercises assist with reader understanding and

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recall Over 150 animations – many of them newly created – help clarify underlying scientific and physiological principles and make learning fun

A practical introduction to orbital interaction theory and its applications in modern organic chemistry Orbital interaction theory is a conceptual construct that lies at the very heart of modern organic chemistry.

Comprising a comprehensive set of principles for explaining chemical reactivity, orbital interaction theory originates in a rigorous theory of electronic structure that also provides the basis for the powerful

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computational models and techniques with which chemists seek to describe and exploit the structures and thermodynamic and kinetic stabilities of molecules. Orbital Interaction Theory of Organic Chemistry, Second Edition introduces students to the fascinating world of organic chemistry at the mechanistic level with a thoroughly self-contained, well-integrated exposition of orbital interaction theory and its applications in modern organic chemistry. Professor Rauk reviews the concepts of symmetry and orbital theory, and explains reactivity in common

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functional groups and reactive intermediates in terms of orbital interaction theory. Aided by numerous examples and worked problems, he guides readers through basic chemistry concepts, such as acid and base strength, nucleophilicity, electrophilicity, and thermal stability (in terms of orbital interactions), and describes various computational models for describing those interactions. Updated and expanded, this latest edition of *Orbital Interaction Theory of Organic Chemistry* includes a completely new chapter on organometallics, increased coverage of density

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functional theory, many new application examples, and worked problems. The text is complemented by an interactive computer program that displays orbitals graphically and is available through a link to a Web site. Orbital Interaction Theory of Organic Chemistry, Second Edition is an excellent text for advanced-level undergraduate and graduate students in organic chemistry. It is also a valuable working resource for professional chemists seeking guidance on interpreting the quantitative data produced by modern computational chemists.

Basic Chemistry Study Guide

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A Natural Approach to
Chemistry: Student text

A-level Chemistry

Introduction to Coordination
Chemistry

Peterson's Master AP Chemistry

*This book (24 chapters) covers the chemistry (chemical composition and structure) of the following spice plants and their products, and provides brief information on the morphology, and postharvest management (storage, packaging and grading) of these crops: black pepper (*Piper nigrum*), small cardamom (*Elettaria cardamomum*), large cardamom (*Amomum subulatum*), ginger, turmeric, cinnamon and cassia (*Cinnamomum* spp.), clove, nutmeg and mace, coriander (*Coriandrum sativum*), cumin (*Cuminum cyminum*), fennel, fenugreek, paprika and chilli (*Capsicum**

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spp.), vanilla (*Vanilla spp.*), ajowan (*Trachyspermum ammi*), star anise (*Illicium verum*), aniseed (*Pimpinella anisum*), garcinia (*Garcinia spp.*), tamarind, parsley, celery, curry leaf (*Murraya koenigii*) and bay leaf (*Laurus nobilis*). This book will be useful to researchers, industrialists and postgraduate students of agriculture, horticulture and phytochemistry, and to spice traders and processors.

This book enables STEMM researchers to write effective papers for publication as well as other research-related texts such as a doctoral thesis, technical report, or conference abstract. Science Research Writing uses a reverse-engineering approach to writing developed from extensive work with STEMM researchers at Imperial College London. This approach unpacks current models of STEMM research writing and helps

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writers to generate the writing tools needed to operate those models effectively in their own field. The reverse-engineering approach also ensures that writers develop future-proof strategies that will evolve alongside the coming changes in research communication platforms. The Second Edition has been extensively revised and updated to represent current practice and focuses on the writing needs of both early-stage doctoral STEM researchers and experienced professional researchers at the highest level, whether or not they are native speakers of English. The book retains the practical, user-friendly format of the First Edition, and now contains seven units that deal separately with the components of written STEM research communication: Introduction, Methods, Results, Discussion, Conclusion, Abstract and Title, as well as extensive FAQ responses

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and a new Checklist and Tips section. Each unit analyses extracts from recent published STEM journal papers to enable researchers to discover not only what to write, but, crucially, how to write it. The global nature of science research requires fast, accurate communication of highly complex information that can be understood by all participants. Like the First Edition, the Second Edition is intended as a fast, do-it-yourself guide to make both the process and the product of STEM research writing more effective. For the New 2020 Exam! AP® Biology Crash Course® A Higher Score in Less Time! At REA, we invented the quick-review study guide for AP® exams. A decade later, REA's Crash Course® remains the top choice for AP® students who want to make the most of their study time and earn a high score. Here's why more AP® teachers and students turn to

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REA's AP® Biology Crash Course®: Targeted Review - Study Only What You Need to Know. REA's all-new 3rd edition addresses all the latest test revisions taking effect through 2020. Our Crash Course® is based on an in-depth analysis of the revised AP® Biology course description outline and sample AP® test questions. We cover only the information tested on the exam, so you can make the most of your valuable study time. Expert Test-taking Strategies and Advice. Written by a veteran AP® Biology teacher and test development expert, the book gives you the topics and critical context that will matter most on exam day. Crash Course® relies on the author's extensive analysis of the test's structure and content. By following her advice, you can boost your score. Practice questions – a mini-test in the book, a full-length exam online. Are you ready for your exam? Try our focused

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practice set inside the book. Then go online to take our full-length practice exam. You'll get the benefits of timed testing, detailed answers, and automatic scoring that pinpoints your performance based on the official AP® exam topics – so you'll be confident on test day. Whether you're cramming for the exam or looking to recap and reinforce your teacher's lessons, Crash Course® is the study guide every AP® student needs.

Vanadium is named after Vanadis, the most aristocratic of Norse goddesses, who symbolises beauty and fertility - essential features of vanadium chemistry. It is a ubiquitous trace element, with a surprising range of biological functions. In Bioinorganic Vanadium Chemistry, Dieter Rehder addresses the major aspects of vanadium chemistry related to living organisms and the mutual impact between biological and inorganic vanadium

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chemistry. Topics covered include: the history, natural occurrence, distribution and impact of vanadium inorganic aspects of the function of vanadium in biological systems interaction of aqueous vanadate and vanadyl with biogenic ligands vanadium coordination compounds the vanadium-carbon bond methods of characterisation of biogenic and model vanadium systems (EPR and ENDOR for oxovanadium(IV); ^{51}V NMR for vanadium(V); XAS) vanadium in ascidians and polychaeta worms the concentration of vanadium in the form of amavadin by Amanita mushrooms vanadate-dependent haloperoxidases vanadium and the nitrogen cycle vanadate as energiser for bacteria, and vanadophores medicinal aspects including the anti-diabetic potential of vanadium compounds interaction of vanadium with proteins and protein substrates vanadium and

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*phosphate-metabolising enzymes
Bioinorganic Vanadium Chemistry
conveys the essential aspects of vanadium
bioinorganic chemistry, making this book
a valuable complement to more general
bioinorganic chemistry texts and more
specialized topical reviews for researchers
and students alike.*

A Dialog

Essentials of Physical Chemistry

The One World Schoolhouse

Napoleon: A Very Short Introduction

*Ross & Wilson Anatomy and Physiology in
Health and Illness E-Book*

A free, world-class education for anyone, anywhere. This is the goal of the Khan Academy, a passion project that grew from an ex-engineer and hedge funder's online tutoring sessions with his niece, who was struggling with

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algebra, into a worldwide phenomenon. Today millions of students, parents, and teachers use the Khan Academy's free videos and software, which have expanded to encompass nearly every conceivable subject; and Academy techniques are being employed with exciting results in a growing number of classrooms around the globe. Like many innovators, Khan rethinks existing assumptions and imagines what education could be if freed from them. And his core idea-liberating teachers from lecturing and state-mandated calendars and opening up class time for truly human interaction-has become his life's passion. Schools seek his advice

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about connecting to students in a digital age, and people of all ages and backgrounds flock to the site to utilize this fresh approach to learning. In THE ONE WORLD SCHOOLHOUSE, Khan presents his radical vision for the future of education, as well as his own remarkable story, for the first time. In these pages, you will discover, among other things: How both students and teachers are being bound by a broken top-down model invented in Prussia two centuries ago Why technology will make classrooms more human and teachers more important How and why we can afford to pay educators the same as other professionals How we can bring

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creativity and true human interactivity back to learning Why we should be very optimistic about the future of learning. Parents and politicians routinely bemoan the state of our education system. Statistics suggest we've fallen behind the rest of the world in literacy, math, and sciences. With a shrewd reading of history, Khan explains how this crisis presented itself, and why a return to "mastery learning," abandoned in the twentieth century and ingeniously revived by tools like the Khan Academy, could offer the best opportunity to level the playing field, and to give all of our children a world-class education now. More than just a solution,

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THE ONE WORLD

SCHOOLHOUSE serves as a call for free, universal, global education, and an explanation of how Khan's simple yet revolutionary thinking can help achieve this inspiring goal.

Poultry products are universally popular and in recent years the consumption of poultry meat has risen dramatically. To ensure the continued growth and competitiveness of this industry, it is essential that poultry meat quality and safety are maintained during production and processing. This important collection provides an authoritative review of the key issues affecting poultry meat quality in production and

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processing. The book begins by establishing consumer requirements for meat quality, before examining the influence of breeding and husbandry, and techniques for stunning and slaughter of poultry. Chapters 5 and 6 look at primary and secondary processing and Chapters 7, 8 and 9 discuss packaging, refrigeration and other preservation techniques. There are also chapters on microbial hazards and chemical residues in poultry. Quality management issues are reviewed in the final group of chapters, including shelf-life and spoilage, measuring quality parameters and ways of maintaining safety and

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maximising quality. Poultry meat processing and quality is an essential reference book for technical managers in the Poultry Industry and anyone engaged in teaching or research on poultry meat production. An essential reference for the entire poultry meat industry Reviews the key issues affecting poultry meat quality in production and processing Extensive analysis of poultry meat safety issues A comprehensive reference for the poultry industry—Volume 2 describes poultry processing from raw meat to final retail products With an unparalleled level of coverage, the Handbook of Poultry Science and Technology

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provides an up-to-date and comprehensive reference on poultry processing. Volume 2: Secondary Processing covers processing poultry from raw meat to uncooked, cooked or semi-cooked retail products. It includes the scientific, technical, and engineering principles of poultry processing, methods and product categories, product manufacturing and attributes, and sanitation and safety. Volume 2: Secondary Processing is divided into seven parts: Secondary processing of poultry products—an overview Methods in processing poultry products—includes emulsions and gelations; breading and battering;

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mechanical deboning; marination, cooking, and curing; and non-meat ingredients Product manufacturing—includes canned poultry meat, turkey bacon and sausage, breaded product (nuggets), paste product (pâté), poultry ham, luncheon meat, processed functional egg products, and special dietary products for the elderly, the ill, children, and infants Product quality and sensory attributes—includes texture and tenderness, protein and poultry meat quality, flavors, color, handling refrigerated poultry, and more Engineering principles, operations, and equipment—includes processing

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equipment, thermal processing, packaging, and more
Contaminants, pathogens, analysis, and quality assurance—includes microbial ecology and spoilage in poultry and poultry products; campylobacter; microbiology of ready-to-eat poultry products; and chemical and microbial analysis
Safety systems in the United States—includes U.S. sanitation requirements, HACCP, U.S. enforcement tools and mechanisms

A practical and well-illustrated guide to microbiological, haematological, and blood transfusion techniques. The microbiology chapter focuses on

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common tropical infections. The haematology chapter deals with the investigation of anaemia and haemoglobinopathies. The blood transfusion chapter provides guidelines on the use of blood and blood substitutes, selection of donors and collection.

Entrepreneurship: A Very Short Introduction

Consciousness: A Very Short Introduction

The Vocabulary and Concepts of Organic Chemistry

Handbook of Poultry Science and Technology, Secondary Processing From Expression to Food

This is the first modern book to treat inorganic and organometallic mass

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spectrometry simultaneously. It is textbook and handbook in one; as a textbook it introduces the techniques and gives hints on how to apply the various techniques, as a handbook it lists all available ionization techniques for just about any given compound. The book also includes non-mathematical explanations of how modern MS instruments work Mass Spectrometry of Inorganic and Organometallic Compounds will inspire the synthetic inorganic and organometallic chemist with the confidence to apply some of the new techniques to their

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characterization problems. Explains how to prepare for the test, reviews the chemistry concepts and skills necessary for the test, and provides sample questions and three full-length practice exams.

A compilation of the calculation procedures needed every day on the job by chemical engineers.

Tables of Contents: Physical and Chemical Properties; Stoichiometry; Phase Equilibrium; Chemical-Reaction Equilibrium; Reaction Kinetics and Reactor Design; Flow of Fluids and

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Solids; Heat Transfer;
Distillation; Extraction and
Leaching; Crystallization;
Filtration; Liquid Agitation;
Size Reduction; Drying;
Evaporation; Environmental
Engineering in the Plant.
Illustrations. Index.

The field of Bioinorganic
Chemistry has grown
significantly in recent years;
now one of the major sub-
disciplines of
Inorganic Chemistry, it has
also pervaded other areas of
the life sciences due to its
highly interdisciplinary
nature. Bioinorganic
Chemistry: Inorganic

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Elements in the Chemistry of Life, Second Edition provides a detailed introduction to the role of inorganic elements in biology, taking a systematic element-by-element approach to the topic. The second edition of this classic text has been fully revised and updated to include new structure information, emerging developments in the field, and an increased focus on medical applications of inorganic compounds. New topics have been added including materials aspects of bioinorganic chemistry, elemental cycles,

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functions of molybdenum,
tungsten, vanadium
and chromium Function and
transport of alkaline and
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