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CHEMICAL PRINCIPLES

Macmillan *This text is designed for a rigorous course in introductory chemistry. Its central theme is to challenge students to think and question while providing a sound foundation in the principles of chemistry.*

CHEMICAL PRINCIPLES

THE QUEST FOR INSIGHT/ PETER ATKINS, LORETTA JONES, LEROY LAVERMAN

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understanding.

CHEMICAL PRINCIPLES

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Macmillan Higher Education *Written for calculus-inclusive general chemistry courses, Chemical Principles helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. Unlike other texts, it begins with a detailed picture of the atom then builds toward chemistry's frontier, continually demonstrating how to solve problems, think about nature and matter, and visualize chemical concepts as working chemists do. It also offers an exceptional level of support to help students develop their mathematical and problem-solving skills. For the new edition, Chemical Principles now takes a modular approach, with coverage organized as a series of brief Topics within 11 major areas of focus, including a refresher on the fundamentals of chemistry and an online-only section on techniques.*

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OUTLINES AND HIGHLIGHTS FOR CHEMICAL PRINCIPLES

A QUESET FOR INSIGHT BY PETER ATKINS, LORETTA JONES, ISBN

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W.H. Freeman *Previous ed published: 1989 Periodic table and text on lining papers Includes index and appendices.*

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Springer *The purpose of the volume is to provide a support for a first course in Mathematics. The contents are organised to appeal*

especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

STUDY GUIDE FOR CHEMICAL PRINCIPLES

W. H. Freeman *This is an extremely helpful accompaniment to Chemical Principles , fifth edition, by Peter Atkins and Loretta Jones. After a review of key concepts, students are taken through worked-out examples, try-it-yourself examples, and chapter quizzes, all structured to build problem-solving techniques and reinforce study objectives from the main text.*

STUDY GUIDE FOR CHEMICAL PRINCIPLES

W. H. Freeman

QUANTA, MATTER, AND CHANGE

A MOLECULAR APPROACH TO PHYSICAL CHEMISTRY

Oxford University Press *aspects of the learning process are fully supported, including the understanding of terminology, notation, mathematical concepts, and the application of physical chemistry to other branches of science." "Building on the heritage of the world-renowned Atkins' Physical Chemistry , Quanta, Matter, and Change gives a refreshing new insight into the familiar by illuminating physical chemistry from a new direction." --Book Jacket.*

ATKINS' PHYSICAL CHEMISTRY 11E

VOLUME 3: MOLECULAR THERMODYNAMICS AND KINETICS

Oxford University Press, USA *Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.*

EXTRACTIVE METALLURGY

PROCESSES AND APPLICATIONS

PHI Learning Pvt. Ltd. *Primarily intended for the undergraduate students of metallurgical and materials engineering, this textbook will help the students to grasp the subject matter of extractive metallurgy in a simple and easy-to-understand manner. It presents a comprehensive view of extractive metallurgy, especially principles and fundamental aspects, in a concise form. The book explains various concepts step by step by narrating their importance. Even without much of background in specialized subjects, the students will be able to understand the topics without any difficulty. It covers a brief summary of the metallurgical processes including physical chemistry, thermodynamics, kinetics, and heat/mass balance. Many of the scientific and engineering aspects of unit processes have been discussed. Applications of metallurgical thermodynamics and kinetics to the process metallurgy are explained as well. All basic concepts and definitions related to metal extraction are also covered.*

CHEMISTRY IN CONTEXT - LABORATORY MANUAL

Nelson Thornes *The labatory manual and study guide supports your teaching with a broad range of practicals, emphasising saftey and risk assessment. It is an essential companion to Chemistry in Context and can also be used alongside other Advanced Chemistry books. It offers practicals wwith detailed instructions, for openended investigations and opportunities for assessed practical work in the four skill areas of planning, implementing, analysing and evaluating.*

STUDENT SOLUTIONS MANUAL FOR CHEMICAL PRINCIPLES

WH Freeman *A solutions manual for the seventh edition of Chemical Principles by Atkins, Jones and Laverman, providing complete, step-by-step, worked out solutions for all problems and exercises in the text.*

CHEMICAL PRINCIPLES + SAPLING LEARNING HOMEWORK AND E-TEXT FOR CHEMICAL PRINCIPLES, 7TH ED., 24 MONTH ACCESS

CHEMICAL PRINCIPLES + SAPLING LEARNING HOMEWORK AND E-TEXT FOR CHEMICAL PRINCIPLES, 7TH ED., 6 MONTH ACCESS

PRINCIPLES OF INORGANIC CHEMISTRY

John Wiley & Sons *Aimed at senior undergraduates and first-year graduate students, this book offers a principles-based approach to inorganic chemistry that, unlike other texts, uses chemical applications of group theory and molecular orbital theory throughout as an underlying framework. This highly physical approach allows students to derive the greatest benefit of topics such as molecular orbital acid-base theory, band theory of solids, and inorganic photochemistry, to name a few. Takes a principles-based, group and molecular orbital theory approach to inorganic chemistry The first inorganic chemistry textbook to provide a thorough treatment of group theory, a topic usually relegated to only one or two chapters of texts, giving it only a cursory overview Covers atomic and molecular term symbols, symmetry coordinates in vibrational spectroscopy using the projection operator method, polyatomic MO theory, band theory, and Tanabe-Sugano diagrams Includes a heavy dose of group theory in the primary inorganic textbook, most of the pedagogical benefits of integration and reinforcement of this material in the treatment of other topics, such as frontier MO acid--base theory, band theory of solids, inorganic photochemistry, the Jahn-Teller effect, and Wade's rules are fully realized Very physical in nature compare to other textbooks in the field, taking the time to go through mathematical derivations and to compare and contrast different theories*

of bonding in order to allow for a more rigorous treatment of their application to molecular structure, bonding, and spectroscopy Informal and engaging writing style; worked examples throughout the text; unanswered problems in every chapter; contains a generous use of informative, colorful illustrations

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THE QUEST FOR INSIGHT

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PRINCIPLES OF ENVIRONMENTAL CHEMISTRY

Jones & Bartlett Learning *Planet Earth : rocks, life, and history -- The Earth's atmosphere -- Global warming and climate change -- Chemistry of the troposphere -- Chemistry of the stratosphere -- Analysis of air and air pollutants -- Water resources -- Water pollution and water treatment -- Analysis of water and wastewater -- Fossil fuels : our major source of energy -- Nuclear power -- Energy sources for the future -- Inorganic metals in the environment -- Organic chemicals in the environment -- Insecticides, herbicides, and insect control -- Toxicology -- Asbestos -- The disposal of dangerous wastes.*

NMR - THE TOOLKIT

HOW PULSE SEQUENCES WORK

Oxford University Press, USA *The renowned Oxford Chemistry Primers series, which provides focused introductions to a range of important topics in chemistry, has been refreshed and updated to suit the needs of today's students, lecturers, and postgraduate researchers. The rigorous, yet accessible, treatment of each subject area is ideal for those wanting a primer in a given topic to prepare them for more advanced study or research. NMR: The Toolkit describessuccinctly the range of NMR techniques commonly used in modern research to probe the structures and properties of molecules in liquids. Emphasis is placed throughout on how these experiments actually work, givinga unique perspective on this powerful experimental tool.*

INORGANIC CHEMISTRY

This textbook aims to convey the important principles and facts of inorganic chemistry in a way that is both understandable and

enjoyable to undergraduates. Examples help to illustrate the material, and key points are summarized at the conclusion of each chapter.

CHEMICAL PRINCIPLES STUDY GUIDE/SOLUTIONS MANUAL

W. H. Freeman *The Study Guide to help students avoid common mistakes and understand the material. Solutions manual includes detailed answers/explanations to the text's odd-numbered exercises.*

CHEMISTRY AT UCLA CHEMICAL PRINCIPLES

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