

Read Book Outline Of  
Understanding Chemistry By  
Godwin Ojokuku

# *Outline Of Understanding Chemistry By Godwin Ojokuku*

Instant Notes in Physical Chemistry introduces the various aspects of physical chemistry in an order that gives the opportunity for continuous reading from front to back. The background to a range of important techniques is incorporated to reflect the wide application of the subject matter. This book provides the key to the understanding and learning of physical chemistry.

THIS VOLUME, WHICH IS  
DESIGNED FOR STAND-ALONE  
USE IN TEACHING AND

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RESEARCH, FOCUSES ON QUANTUM CHEMISTRY, AN AREA OF SCIENCE THAT MANY CONSIDER TO BE THE CENTRAL CORE OF COMPUTATIONAL CHEMISTRY. TUTORIALS AND REVIEWS COVER \* HOW TO OBTAIN SIMPLE CHEMICAL INSIGHT AND CONCEPTS FROM DENSITY FUNCTIONAL THEORY CALCULATIONS, \* HOW TO MODEL PHOTOCHEMICAL REACTIONS AND EXCITED STATES, AND \* HOW TO COMPUTE ENTHALPIES OF FORMATION OF MOLECULES. A FOURTH CHAPTER TRACES CANADIAN RESEARCH IN THE EVOLUTION OF COMPUTATIONAL CHEMISTRY.

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ALSO INCLUDED WITH THIS VOLUME IS A SPECIAL TRIBUTE TO QCPE.FROM REVIEWS OF THE SERIES "Reviews in Computational Chemistry proves itself an invaluable resource to the computational chemist. This series has a place in every computational chemist's library."-Journal of the American Chemical Society

This concise and accessible book provides organic chemistry notes for students studying chemistry and related courses at undergraduate level, covering core organic chemistry in a format ideal for learning and rapid revision. The material is organised so that fundamental concepts are introduced early, then built on to provide an overview of the essentials of functional

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group chemistry and reactivity, leading the student to a solid understanding of the basics of organic chemistry.

Graphical presentation of information is central to the book, to facilitate the rapid assimilation, understanding and recall of critical concepts, facts and definitions. Students wanting a comprehensive and accessible overview of organic chemistry to build the necessary foundations for a more detailed study will find this book an ideal source of the information they require. In addition, the structured presentation, highly graphical nature of the text and practice problems with outline answers will provide an invaluable framework and aid to revision for students preparing for examinations. Keynotes in Organic

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Chemistry is also a handy desk reference for advanced students, postgraduates and researchers. For this second edition the text has been completely revised and updated. Colour has been introduced to clarify aspects of reaction mechanisms, and new margin notes to emphasise the links between different topics. The number of problems have been doubled to approximately 100, and includes spectra interpretation problems. Each chapter now starts with diagrams to illustrate the key points, and ends with a list of key reactions and a worked example.

Basic Physical Chemistry  
Lecture Notes for Chemical Students  
Papers and Notes on the Genesis and  
Matrix of the Diamond

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The Chemistry of Creation: Being an Outline of the Chemistries of the Earth, the Air, the Ocean, Etc. [With Illustrations.]

Chemistry for Engineering Students

*The development of university organic chemistry curricula and the trend towards modularisation of chemistry courses has driven the need for smaller, highly focussed and accessible organic chemistry textbooks, which complement the very detailed “standard texts”, to guide students through the key principles of the subject. This concise and accessible book provides organic chemistry notes for students studying chemistry and related courses at undergraduate level, covering core organic chemistry in a format ideal for learning and rapid revision. The*

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*material is organised so that fundamental concepts are introduced early, then built on to provide an overview of the essentials of functional group chemistry and reactivity, leading the student to a solid understanding of the basics of organic chemistry. Graphical presentation of information is central to the book, to facilitate the rapid assimilation, understanding and recall of critical concepts, facts and definitions. Students wanting a comprehensive and accessible overview of organic chemistry to build the necessary foundations for a more detailed study will find this book an ideal source of the information they require. In addition, the structured presentation, highly graphical nature of the text and practice problems with*

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*outline answers will provide an invaluable framework and aid to revision for students preparing for examinations.*

*This new edition of Robert G. Mortimer's Physical Chemistry has been thoroughly revised for use in a full year course in modern physical chemistry. In this edition, Mortimer has included recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics, as well as in the experimental study of extremely rapid chemical reactions. While Mortimer has made substantial improvements in the selection and updating of topics, he has retained the clarity of presentation, the integration of description and theory, and the level of rigor that made the first edition so successful. \* Emphasizes*



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*clarity; every aspect of the first edition has been examined and revised as needed to make the principles and applications of physical chemistry as clear as possible. \* Proceeds from fundamental principles or postulates and shows how the consequences of these principles and postulates apply to the chemical and physical phenomena being studied. \* Encourages the student not only to know the applications in physical chemistry but to understand where they come from. \* Treats all topics relevant to undergraduate physical chemistry.*

*Outlines of Chemistry A Textbook for College Students Franklin Classics*

*Schaum's Outline of Beginning Chemistry*

*General Chemistry*

*Journal of Chemical Education*

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*A Textbook for College Students*

*Reviews in Computational Chemistry*

Like the author's other companion books, The Chemistry Companion provides high quality information in unique one-page-per-topic presentations that do not overburden and distract with excessive details. The book offers concise summaries of general chemistry concepts, easily accessible in a convenient, reader-friendly format. Suitable as an introductory

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 650 fully solved problems, examples, and practice exercises to

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sharpen your problem-solving skills. Plus, you will have access to 16 detailed videos featuring Chemistry instructors who explain the most commonly tested concepts--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and

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practice exercises to test your skills. This Schaum's Outline gives you 673 fully solved problems  
Hundreds of examples with explanations of chemistry concepts  
Support for all the major textbooks for beginning chemistry courses  
Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's  
Outlines--Problem Solved.  
Includes Report of New England Association of Chemistry Teachers, and Proceedings of the Pacific Southwest Association of Chemistry Teachers.  
Keynotes in Organic Chemistry

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A Practical Guide and Textbook for  
Student Teachers, Teacher  
Trainees and Teachers

Understanding Chemistry for  
Advanced Level

Understanding Wine Chemistry

1: Inorganic chemistry

Study Guide to Accompany Basics for  
Chemistry is an 18-chapter text designed  
to be used with Basics for Chemistry  
textbook. Each chapter contains Overview,  
Topical Outline, Skills, and Common  
Mistakes, which are all keyed to the  
textbook for easy cross reference. The  
Overview section summarizes the content  
of the chapter and includes a  
comprehensive listing of terms, a summary  
of general concepts, and a list of  
numerical exercises, while the Topical  
Outline provides the subtopic heads that  
carry the corresponding chapter and

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section numbers as they appear in the textbook. The Fill-in, Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples. The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry, while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter. After briefly dealing with an overview of chemistry, this book goes on exploring the concept of matter, energy, measurement, problem solving, atom, periodic table, and chemical bonding. These topics are followed by discussions on writing names and formulas of

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compounds; chemical formulas and the mole; chemical reactions; calculations based on equations; gases; and the properties of a liquid. The remaining chapters examine the solutions; acids; bases; salts; oxidation-reduction reactions; electrochemistry; chemical kinetics and equilibrium; and nuclear, organic, and biological chemistry. This study guide will be of great value to chemistry teachers and students.

The new edition of this study guide makes learning organic chemistry much easier than with the usual textbook, and it shows how organic chemistry is applied today in biological chemistry, medicine and industry. Grasping the concepts of this daunting subject is much easier with the clear, concise explanations backed up with hundreds of concrete examples. Students learn how to solve problems step-by-step; they can further hone their skills solving

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additional problems with answers.

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Outline Of College Chemistry Alexander



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Smith Century co., 1921

The Chemical Catechism, with Notes,  
Illustrations and Experiments ... The Ninth  
Edition, Etc

Outlines of chemistry for the use of  
students

Chemistry

Sonochemistry and Sonoluminescence

Outlines of Chemistry

**General Chemistry** presents the  
fundamental concepts of general  
chemistry in a precise and  
comprehensive manner for  
undergraduate students of chemistry  
and life science at all Indian  
universities. Adhering strictly to the  
UGC curriculum, the contents are  
written in a simple and lucid language  
enriched with a large number of  
examples and illustrations.

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KEYNOTES IN Organic Chemistry  
KEYNOTES IN Organic Chemistry  
SECOND EDITION This concise  
and accessible textbook provides  
notes for students studying chemistry  
and related courses at undergraduate  
level, covering core organic chemistry  
in a format ideal for learning and  
rapid revision. The material, with an  
emphasis on pictorial presentation, is  
organised to provide an overview of  
the essentials of functional group  
chemistry and reactivity, leading the  
student to a solid understanding of  
the basics of organic chemistry. This  
revised and updated second edition of  
Keynotes in Organic Chemistry  
includes: new margin notes to  
emphasise links between different

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topics, colour diagrams to clarify aspects of reaction mechanisms and illustrate key points, and a new keyword glossary. In addition, the structured presentation provides an invaluable framework to facilitate the rapid learning, understanding and recall of critical concepts, facts and definitions. Worked examples and questions are included at the end of each chapter to test the reader ' s understanding. Reviews of the First Edition “ ...this text provides an outline of what should be known and understood, including fundamental concepts and mechanisms. ” Journal of Chemical Education, 2004 “ Despite the book ' s small size, each chapter is thorough, with coverage of

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all important reactions found at first-year level... ideal for the first-year student wishing to revise... and priced and designed appropriately. ”

The Times Higher Education  
Supplement, 2004

Covers statistics, probability, chemical equilibrium, acid-base reactions, precipitates, complex ion equilibria, titrations, phase separations, radioactivity, and chromatography

Techniques and Topics in  
Bioinorganic Chemistry

Teaching Chemistry – A Studybook

The Route to Understanding

College Chemistry

A Laboratory outline of general  
chemistry

**This work has been selected by scholars**

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knowledge alive and relevant.

**This new edition of CHEMISTRY continues to incorporate a strong molecular reasoning focus, amplified problem-solving exercises, a wide range of real-life examples and applications, and innovative technological resources.**

**With this text's focus on molecular reasoning, readers will learn to think at the molecular level and make connections between molecular structure and macroscopic properties.**

**The Tenth Edition has been revised throughout and now includes a reorganization of the descriptive chemistry chapters to improve the flow of topics, a new basic math skills Appendix, an updated art program with new talking labels that fully explain what is going on in the figure, and much more. Available with InfoTrac Student Collections**

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<http://gocengage.com/infotrac>.

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**This elegant book provides a student-friendly introduction to the subject of physical chemistry. It is concise and more compact than standard textbooks on the subject and it emphasises the two important concepts underpinning physical chemistry: quantum mechanics and the second law of thermodynamics. The principles are challenging to students because they both focus on uncertainty and probability. The book explains these fundamental concepts clearly and shows how they offer the key to understanding the wide range of chemical phenomena including atomic and molecular spectra, the structure and properties of solids, liquids and**

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gases, chemical equilibrium, and the rates of chemical reactions.

**Study Guide to Accompany Basics for Chemistry**

**Schaum's Outline of Theory and Problems of Organic Chemistry**

**Roald Hoffmann on the Philosophy, Art, and Science of Chemistry**

**Understanding Chemistry**

**Lessons in Chemistry**

**Unique and accessible overview of modern chemistry, including contributions from several Nobel Prize winners. Wine chemistry inspires and challenges with its complexity, and while this is intriguing, it can also be a barrier to further understanding. The topic is demystified in Understanding Wine Chemistry, which**



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**explains the important chemistry of wine at the level of university education, and provides an accessible reference text for scientists and scientifically trained winemakers alike.**

**Understanding Wine Chemistry: Summarizes the compounds found in wine, their basic chemical properties and their contribution to wine stability and sensory properties Focuses on chemical and biochemical reaction mechanisms that are critical to wine production processes such as fermentation, aging, physiochemical separations**

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**and additions Includes case studies showing how chemistry can be harnessed to enhance wine color, aroma, flavor, balance, stability and quality. This descriptive text provides an overview of wine components and explains the key chemical reactions they undergo, such as those controlling the transformation of grape components, those that arise during fermentation, and the evolution of wine flavor and color. The book aims to guide the reader, who perhaps only has a basic knowledge of chemistry, to rationally explain or predict the outcomes of chemical**

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**reactions that contribute to the diversity observed among wines. This will help students, winemakers and other interested individuals to anticipate the effects of wine treatments and processes, or interpret experimental results based on an understanding of the major chemical reactions that can occur in wine.**

**"Roald Hoffmann's contributions to chemistry are well known; this Nobel laureate has published more than 500 articles and two books. As an "applied theoretical chemist," he has made significant contributions to our understanding of**

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**chemical bonding and reactivity, and taught two generations of chemists how to use molecular orbitals for real chemistry. Less well known, however, are Hoffmann's important and insightful contributions to the areas of scholarship surrounding chemistry. Over a career that spans nearly fifty years, Roald Hoffmann has thought and written copiously about the broader context of chemistry and its relationship to the arts and poetry. This book contains Hoffmann's essays and is organized around several major themes: chemical reasoning and**

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**explanation, writing and communicating in science, ethics, art and science, and chemical education. A few are unpublished lectures that are valuable additions to the volume. The editors have the full cooperation of Roald Hoffmann in this project. Most of the published work will be reprinted verbatim, but a few of the essays will be revised to eliminate redundancy. The unpublished lectures will also be edited since they were originally intended to be delivered orally at specific occasions. The editors will provide an introduction to the book, and some introductory**

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**material for each section. In introducing the material, they will highlight the intrinsic importance and interest of the ideas, as well as the places where Hoffmann's thought makes novel contributions to cognate areas"--**

**A Novel**

**Schaum's Outline of Analytical Chemistry**

**The New Chemistry**

**Outlines of Physical Chemistry**

**An Outline of Its Chemistry and Uses**

Sonochemistry is studied primarily by chemists and sonoluminescence mainly by physicists, but a single physical phenomenon -

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acoustic cavitation - unites the two areas. The physics of cavitation bubble collapse, is relatively well understood by acoustical physicists but remains practically unknown to the chemists. By contrast, the chemistry that gives rise to electromagnetic emissions and the acceleration of chemical reactions is familiar to chemists, but practically unknown to acoustical physicists. It is just this knowledge gap that the present volume addresses. The first section of the book

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addresses the fundamentals of cavitation, leading to a more extensive discussion of the fundamentals of cavitation bubble dynamics in section two. A section on single bubble sonoluminescence follows. The two following sections address the new scientific discipline of sonochemistry, and the volume concludes with a section giving detailed descriptions of the applications of sonochemistry. The mixture of tutorial lectures and detailed research articles means that the book can



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serve as an introduction as well as a comprehensive and detailed review of these two interesting and topical subjects.

Matches the specifications of the Awarding Bodies (AQA:NEAB / AEB, OCR and Edexcel). This accessible text includes frequent hints, questions and examination questions, providing support and facilitating study at home. It features photographs and comprehensive illustrations with 3D chemical structures. Molybdenum is an element

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with an extremely rich and interesting chemistry having very versatile applications in various fields of human activity. It is used extensively in metallurgical applications. Because of their anti-wear properties, molybdenum compounds find wide applications as lubricants - particularly in extreme or hostile environmental situations. Many molybdates and heteropolymolybdates are white and therefore used as pigments. In addition, they are non-toxic and act

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as efficient corrosion inhibitors and smoke suppressants.

Hydroprocessing of petroleum is one of the largest industries employing heterogeneous catalysts. Molybdenum catalysts have shown great promise in the liquefaction of coal and this may develop into one of its most important catalytic uses. The use of molybdenum compounds in homogeneous catalysis is also significant. Three important classes of molybdenum compounds in the solid state are

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reviewed, viz., oxides, sulphides and halides. The role of molybdenum in inorganic catalysis and enzymes receives prominent mention because of their impact on the progress of science and technology. Further biochemical and enzymic factors are discussed in separate chapters and their reaction to agriculture and animal husbandry. A new classification of covalent compounds which abandons the traditional oxidation state concept allows a powerful approach to the organisation of the

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complex and rich chemistry of molybdenum. Dramatic colour diagrams of abundances of molybdenum compounds provide broad insights into the important features and trends in the chemistry of molybdenum including reactivity and mechanism. The book is intended for use mainly as a research monograph by the many workers who may encounter molybdenum chemistry or who are looking for its application and potential uses in different technological fields. However, it will also

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serve as an advanced text for university lecturers and postgraduate students interested in inorganic, physical and industrial chemistry, chemical technology or biochemistry and biotechnology.

Physical Chemistry

The Chemistry Companion

Instant Notes in Physical Chemistry

A Brief Introduction

A Laboratory Outline of College Chemistry -

Primary Source Edition

*This self-assessment guide helps students pass tests or exams in chemistry by providing*

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*an overview of the  
concepts, review  
material and hundreds of  
questions on the subject  
area's main topics and  
subtopics.*

*NEW YORK TIMES*

*BESTSELLER • GOOD*

*MORNING AMERICA BOOK*

*CLUB PICK • A must-read*

*debut! Meet Elizabeth*

*Zott: a “formidable,*

*unapologetic and*

*inspiring” (PARADE)*

*scientist in 1960s*

*California whose career*

*takes a detour when she*

*becomes the unlikely*

*star of a beloved TV*

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*cooking show in this novel that is "irresistible, satisfying and full of fuel. It reminds you that change takes time and always requires heat" (The New York Times Book Review). "A unique heroine ... you'll find yourself wishing she wasn't fictional." -Seattle Times Chemist Elizabeth Zott is not your average woman. In fact, Elizabeth Zott would be the first to point out that there is no such*



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*thing as an average woman. But it's the early 1960s and her all-male team at Hastings Research Institute takes a very unscientific view of equality. Except for one: Calvin Evans; the lonely, brilliant, Nobel-prize nominated grudge-holder who falls in love with—of all things—her mind. True chemistry results. But like science, life is unpredictable. Which is why a few years later Elizabeth Zott finds herself not only a*

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single mother, but the reluctant star of America's most beloved cooking show *Supper at Six*. Elizabeth's unusual approach to cooking ("combine one tablespoon acetic acid with a pinch of sodium chloride") proves revolutionary. But as her following grows, not everyone is happy. Because as it turns out, Elizabeth Zott isn't just teaching women to cook. She's daring them to change the status quo. Laugh-out-loud funny, shrewdly

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*observant, and studded with a dazzling cast of supporting characters, Lessons in Chemistry is as original and vibrant as its protagonist.*

*CHEMISTRY FOR ENGINEERING STUDENTS, connects chemistry to engineering, math, and physics; includes problems and applications specific to engineering; and offers realistic worked problems in every chapter that speak to your interests as a future engineer. Packed*

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*with built-in study tools, this textbook gives you the resources you need to master the material and succeed in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

*673 Solved Problems + 16 Videos*

*Inorganic Chemistry for Undergraduates*

*outlines of chemistry with practical work*

*Molybdenum*

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Chemistry 2e

***This book focuses on developing and updating prospective and practicing chemistry teachers' pedagogical content knowledge. The 11 chapters of the book discuss the most essential theories from general and science education, and in the second part of each of the chapters apply the theory to examples from the chemistry classroom. Key sentences, tasks for self-assessment, and suggestions for further reading are also included.***

***The book is focused on many different issues a teacher of chemistry is concerned with. The chapters provide contemporary discussions of the chemistry curriculum, objectives and assessment, motivation, learning difficulties, linguistic issues, practical work, student active pedagogies, ICT, informal learning, continuous professional development, and teaching chemistry in developing environments. This book, with***

***contributions from many of the world's top experts in chemistry education, is a major publication offering something that has not previously been available. Within this single volume, chemistry teachers, teacher educators, and prospective teachers will find information and advice relating to key issues in teaching (such as the curriculum, assessment and so forth), but contextualised in terms of the specifics of teaching and learning of***

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***chemistry, and drawing upon the extensive research in the field. Moreover, the book is written in a scholarly style with extensive citations to the literature, thus providing an excellent starting point for teachers and research students undertaking scholarly studies in chemistry education; whilst, at the same time, offering insight and practical advice to support the planning of effective chemistry teaching. This book***



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***should be considered essential reading for those preparing for chemistry teaching, and will be an important addition to the libraries of all concerned with chemical education. Dr Keith S. Taber (University of Cambridge; Editor: Chemistry Education Research and Practice) The highly regarded collection of authors in this book fills a critical void by providing an essential resource for teachers of chemistry to enhance pedagogical***

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***content knowledge for teaching modern chemistry. Through clever orchestration of examples and theory, and with carefully framed guiding questions, the book equips teachers to act on the relevance of essential chemistry knowledge to navigate such challenges as context, motivation to learn, thinking, activity, language, assessment, and maintaining professional expertise. If you are a secondary or post-secondary teacher of chemistry, this book will***

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***quickly become a favorite  
well-thumbed resource!  
Professor Hannah Sevia  
(University of  
Massachusetts Boston)***