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For one-semester courses in
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relevant to students Now in its fifth
edition, Introductory Chemistry
continues to foster deep engagement in
the course by showing how chemistry
manifests in students' daily lives.
Author Nivaldo Tro draws upon his
classroom experience as an award-
winning instructor to extend chemistry
from the laboratory to the student's
world, capturing student attention with
relevant applications and a captivating
writing style. This program provides a
better teaching and learning experience-

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for you and your students. It will help you to:

- * * Enable deep conceptual understanding: Several new Conceptual Checkpoints and Self- Assessment Quizzes help students better grasp key concepts.
- * Foster development of problem-solving skills: A step-by-step framework encourages students to think logically rather than simply memorize formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems.
- * Encourage interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps students engaged in the material.

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students quickly master concepts, and enables instructors to provide timely intervention when necessary.

There have been significant advances in both analytical instrumentation and computerised data handling during the five years since the third edition was published in 1990. Windows-based computer software is now widely available for instrument control and real-time data processing and the use of laboratory information and management systems (LIMS) has become commonplace. Whilst most analytical techniques have undergone steady improvements in instrument design, high-performance capillary electrophoresis (HPCE or CE) and two dimensional nuclear magnetic resonance spectrometry (2D-NMR)

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have developed into major forces in separation science and structural analysis respectively. The powerful and versatile separation technique of CE promises to rival high-performance liquid chromatography, particularly in the separation of low levels of substances of biological interest. The spectral information provided by various modes of 2D-NMR is enabling far more complex molecules to be studied than hitherto. The electrophoresis section of chapter 3 and the NMR section of chapter 9 have therefore been considerably expanded in the fourth edition along with a revision of aspects of atomic spectrometry (chapter 8). New material has been included on fluorescence spectrometry (chapter 9), the use of

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Kovats Retention Indices in gas chromatography (chapter 3) and solid phase extraction for sample cleanup and concentration (chapter 12).

Additions to high performance liquid chromatography (chapter 3) reflect the growing importance of chiral stationary phases, solvent optimization and pH control, continuous regeneration cartridges for ion chromatography and HPLC-MS.

The perfect answer for any instructor seeking a more concise, meaningful, and flexible alternative to the standard introductory biology text.

See how chemistry is relevant to your life Now in its fifth edition,

Introductory Chemistry continues to foster deep engagement in the course by showing how chemistry manifests in

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your daily life. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to your world, with relevant applications and a captivating writing style. Closely integrated with the fifth edition of *Introductory Chemistry*, *MasteringChemistry*® gives you the tools you need to succeed in this course. This program provides you a better learning experience. It will help you to:

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This innovative, pedagogically driven text explains difficult concepts in a student-oriented manner. The book

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offers a rigorous and accessible treatment of general chemistry in the context of relevance. Chemistry is presented visually through multi-level images--macroscopic, molecular and symbolic representations--helping students see the connections among the formulas (symbolic), the world around them (macroscopic), and the atoms and molecules that make up the world (molecular). KEY TOPICS: Units of Measurement for Physical and Chemical Change; Atoms and Elements; Molecules, Compounds, and Nomenclature; Chemical Reactions and Stoichiometry; Gases; Thermochemistry ; The Quantum-Mechanical Model of the Atom; Periodic Properties of the Elements; Chemical Bonding I: Lewis Theory; Chemical Bonding II:

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Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory; Liquids, Solids, and Intermolecular Forces; Solutions; Chemical Kinetics; Chemical Equilibrium; Acids and Bases; Aqueous Ionic Equilibrium; Gibbs Energy and Thermodynamics; Electrochemistry; Radioactivity and Nuclear Chemistry; Organic Chemistry I: Structures; Organic Chemistry II: Reactions; Biochemistry; Chemistry of the Nonmetals; Metals and Metallurgy; Transition Metals and Coordination Compounds MARKET: Appropriate for General Chemistry (2 - Semester) courses. For one-semester courses in Preparatory Chemistry Builds 21st

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century and problem solving skills, preparing students for success Now in its 6th Edition, the best-selling Introductory Chemistry continues to encourage student interest by showing how chemistry manifests in students' daily lives. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to the student's world, capturing student attention with relevant applications and an engaging writing style. The text provides a superior teaching and learning experience, enabling deep conceptual understanding, fostering the development of problem-solving skills, and encouraging interest in chemistry with concrete examples. Extending chemistry from the lab to the student's

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world, the text reveals that anyone can master chemistry. Refined to meet its purpose of teaching relevant skills, the 6th Edition includes new questions, data, and sections to help students build the 21st century skills necessary to succeed in introductory chemistry and beyond. Already a visual text, in this edition the art has been further refined and improved, making the visual impact sharper and more targeted to student learning. The new edition also includes new Conceptual Checkpoints, a widely embraced feature that emphasizes understanding rather than calculation, as well as a new category of end-of-chapter questions called Data Interpretation and Analysis, which present real data in real life situations and ask students to analyze and

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NEW TO THIS EDITION Updated throughout with the latest discoveries Five new chapters covering * the molecular structure of receptors and the mechanisms of signal transduction *combinatorial synthesis * the role of computers in drug design * adrenergics * drug discovery and drug development

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Make chemistry relevant to students Now in its fifth edition, Introductory Chemistry Essentials continues to foster deep engagement in the course by showing how chemistry manifests in students ' daily lives. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to the student ' s world, capturing student attention with relevant applications and a captivating writing style. This program provides a better teaching and learning experience – for you and your students. It will help you to:

- Enable deep conceptual understanding: Several new Conceptual Checkpoints and Self-Assessment Quizzes help students

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better grasp key concepts. Foster development of problem-solving skills: A step-by-step framework encourages students to think logically rather than simply memorise formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems. Encourage interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps students engaged in the material. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free

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In most cases, every chemist must deal with solvent effects, whether voluntarily or otherwise. Since its publication, this has been the standard reference on all topics related to solvents and solvent effects in organic chemistry. Christian Reichardt provides reliable information on the subject, allowing chemists to understand and effectively use these phenomena. 3rd updated and

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enlarged edition of a classic 35% more contents excellent, proven concept includes current developments, such as ionic liquids indispensable in research and industry From the reviews of the second edition: "...This is an immensely useful book, and the source that I would turn to first when seeking virtually any information about solvent effects."

—Organometallics

"This book will combine photographs with evocative text to show how chemistry underpins the formation of snowflakes, the patterns of animal markings, and much more"--

For courses in Chemistry Laboratory. With a focus on real-world applications and a conversational tone, this

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laboratory manual contains experiments written specifically to correspond with Chemistry: A Molecular Approach, Fourth Edition by Nivaldo J. Tro. Each experiment covers one or more topics discussed within a chapter of the textbook, with the dual goal of 1) helping students understand the underlying concepts covered in the lecture, and 2) presenting this material in a way that is interesting and exciting. This manual contains twenty-nine experiments with a focus on real world applications. Each experiment contains a set of pre-laboratory questions, an introduction, a step-by-step procedure (including safety information and a report section featuring post-laboratory

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questions). Additional features include a section on laboratory safety rules, an overview on general techniques and equipment, as well as a detailed tutorial on graphing data in Excel.

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Organic Chemistry may be challenging, but that doesn't mean you can't get the grade you want. With David Klein's Organic Chemistry as a Second Language: Translating the Basic Concepts, you'll be able to better understand fundamental principles, solve problems, and focus on what you need to know to succeed. Here's how you can get a better grade in Organic Chemistry: Understand the Big Picture. Organic Chemistry as a Second Language points out the major principles in Organic Chemistry and explains why they are relevant to the rest of the course. By putting these principles together, you'll have a coherent framework that will help you better understand your textbook. Study More Efficiently and Effectively Organic Chemistry as a Second Language provides time-saving study tips and a clear roadmap for your studies that will help

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you to focus your efforts. Improve Your Problem-Solving Skills Organic Chemistry as a Second Language will help you develop the skills you need to solve a variety of problem types-even unfamiliar ones! Need Help in Your Second Semester? Get Klein's Organic Chemistry II as a Second Language!

978-0-471-73808-5

This latest edition of the most internationally respected reference in food chemistry for more than 30 years, Fennema's Food Chemistry, 5th Edition once again meets and surpasses the standards of quality and comprehensive information set by its predecessors. All chapters reflect recent scientific advances and, where appropriate, have expanded and evolved their focus to provide readers with the current state-of-the-science of chemistry for the food industry. This edition introduces new editors and

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contributors who are recognized experts in their fields. The fifth edition presents a completely rewritten chapter on Water and Ice, written in an easy-to-understand manner suitable for professionals as well as undergraduates. In addition, ten former chapters have been completely revised and updated, two of which receive extensive attention in the new edition including Carbohydrates (Chapter 3), which has been expanded to include a section on Maillard reaction; and Dispersed Systems: Basic considerations (Chapter 7), which includes thermodynamic incompatibility/phase separation concepts. Retaining the straightforward organization and accessibility of the original, this edition begins with an examination of major food components such as water, carbohydrates, lipids, proteins, and enzymes. The second section looks at minor food components including

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vitamins and minerals, colorants, flavors, and additives. The final section considers food systems by reviewing basic considerations as well as specific information on the characteristics of milk, the postmortem physiology of edible muscle, and postharvest physiology of plant tissues.

Introductory chemistry students need to develop problem-solving skills, and they also must see why these skills are important to them and to their world. Introductory Chemistry, Fourth Edition extends chemistry from the laboratory to the student's world, motivating students to learn chemistry by demonstrating how it is manifested in their daily lives.

Throughout, the Fourth Edition presents a new student-friendly, step-by-step problem-solving approach that adds four steps to each worked example (Sort, Strategize, Solve, and Check). Tro's acclaimed

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pedagogical features include Solution Maps, Two-Column Examples, Three-Column Problem-Solving Procedures, and Conceptual Checkpoints. This proven text continues to foster student success beyond the classroom with MasteringChemistry®, the most advanced online tutorial and assessment program available. This package contains: Tro, Introductory Chemistry with MasteringChemistry® Long, Introductory Chemistry Math Review Toolkit

*The Eighth Edition of Zumdahl and DeCoste's best-selling **INTRODUCTORY CHEMISTRY: A FOUNDATION** that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond.*

Capturing student interest through early coverage of chemical reactions, accessible

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explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised

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end-of-chapter questions. The book's unsurpassed teaching and learning resources include a robust technology package that now offers a choice between OWL: Online Web Learning and Enhanced WebAssign. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. A text and media package that helps students develop their molecular-visualization skills as a key part of becoming expert problem solvers. 'Ideal for getting an overview of applied organic chemistry' This bestselling standard, now in its 3rd completely revised English edition, is an excellent source of technological and economic information on the most important precursors and intermediates used in the chemical industry. Right and left columns containing synopsis of the main text and

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statistical data, and numerous fold-out flow diagrams ensure optimal didactic presentation of complex chemical processes. The translation into eight languages, the four German and three English editions clearly evidence the popularity of this book. '... it is where I look first to get a quick overview of the manufacturing process of a product... Weissermel/Arpe has been serving me for years as an indispensable reference work.' (Berichte der Bunsengesellschaft für Physikalische Chemie) 'Whether student or scientist, theorist or practitioner - everyboby interested in industrial organic chemistry will appreciate this work.' (farbe + lack) '...it should be ready to hand to every chemist or process engineer envolved directly or indirectly with industrial organic chemistry . It should be in the hand of every higher-graduate student, especially if chemical technology

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is not part of the study, like in many college universities...' (Tenside-Surfactants-Detergents)

This comprehensive collection of over 300 intriguing investigations-including demonstrations, labs, and other activities--uses everyday examples to make chemistry concepts easy to understand. It is part of the two-volume PHYSICAL SCIENCE CURRICULUM LIBRARY, which consists of Hands-On Physics Activities With Real-Life Applications and Hands-On Chemistry Activities With Real-Life Applications.

[*Hands-On Chemistry Activities with Real-Life Applications*](#)

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Introductory Chemistry, Basic Chemistry,
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Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary

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applications.

Chemistry provides a robust coverage of the different branches of chemistry - with unique depth in organic chemistry in an introductory text - helping students to develop a solid understanding of chemical principles, how they interconnect and how they can be applied to our lives. "Covers Physical Chemistry in an accessible format for first years...good for covering the gap between varied levels of knowledge from different schools' curricula and the much more demanding University courses." - Dr Ritu Katakya, DEPT OF CHEMISTRY,

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UNIVERSITY OF DURHAM

This custom edition is published
for Murdoch University.

Chemistry is widely considered
to be the central science: it
encompasses concepts from
which other branches of science
are developed. Yet, for many
students entering university,
gaining a firm grounding in
chemistry is a real challenge.
Chemistry responds to this
challenge, providing students
with a full understanding of the
fundamental principles of
chemistry on which to build later
studies. Uniquely amongst the
introductory chemistry texts
currently available, Chemistry is

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written by a team of chemists to give equal coverage of organic, inorganic and physical chemistry - coverage that is uniformly authoritative. The approach to organic chemistry is mechanistic, rather than the old-fashioned 'functional group' approach, to help students achieve a fuller understanding of the underlying principles. The expertise of the author team is complemented by two specialists in chemistry education, who bring to the book a wealth of experience of teaching chemistry in a way that students enjoy and understand, and who understand the challenges of the transition from

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school to university. The result is a text that builds on what students know already from school and tackles their misunderstandings and misconceptions, thereby providing a seamless transition from school to undergraduate study. The authors achieve unrivalled accessibility through the provision of carefully-worded explanations and reminders of students' existing knowledge; the introduction of concepts in a logical and progressive manner; and the use of annotated diagrams and step-by-step worked examples. Students are encouraged to engage with the

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text and appreciate the central role that chemistry plays in our lives through the unique use of real-world context and photographs. Chemistry tackles head-on two issues pervading chemistry education: students' mathematical skills, and their ability to see the subject as a single, unified discipline. Instead of avoiding the maths, Chemistry provides structured support, in the form of careful explanations, reminders of key mathematical concepts, step-by-step calculations in worked examples, and a Maths Toolkit, to help students get to grips with the essential mathematical

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element of chemistry. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics, so students can develop an understanding of the subject as a whole.

Introduction to Organic Chemistry, 5th Edition provides an introduction to organic chemistry for students who require the fundamentals of organic chemistry as a requirement for their major. It is most suited for a one semester organic chemistry course. In an attempt to highlight the relevance of the material to students, the

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authors place a strong emphasis on showing the interrelationship between organic chemistry and other areas of science, particularly the biological and health sciences. The text illustrates the use of organic chemistry as a tool in these sciences; it also stresses the organic compounds, both natural and synthetic, that surround us in everyday life: in pharmaceuticals, plastics, fibers, agrochemicals, surface coatings, toiletry preparations and cosmetics, food additives, adhesives, and elastomers. Helping you focus on mastering the quantitative skills and

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conceptual knowledge you need to get a true understanding of chemistry, this text continues the tradition of relevance that makes it so effective. Now including MasteringChemistry, the online homework, tutorial, and assessment product with a demonstrated record of helping students quickly master concepts, this edition includes new opportunities for you to practice key concepts.

MasteringChemistry provides seamless synergy with the text to create a dynamic learning program that enables you to learn both in and out of the classroom.

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This volume provides an introduction to medicinal chemistry. It covers basic principles and background, and describes the general tactics and strategies involved in developing an effective drug.

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NOTE: This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students—this format costs 35% less than a new textbook.

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Carrying through an atoms-first approach from the first four editions, and helping you focus on mastering the quantitative skills and conceptual knowledge you need to get

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a true understanding of chemistry, Russo and Silver's Introductory Chemistry, Fifth Edition continues the tradition of relevance that makes it so effective. Now including MasteringChemistry®, the leading online homework, tutorial, and assessment product with a demonstrated record of helping students quickly master concepts, this Fifth Edition includes new opportunities for you to practice key concepts. MasteringChemistry provides seamless synergy with the text to create a

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building blocks of matter and progress to understanding complex concepts from a logical point of view and with a deep understanding.

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MasteringChemistry: Self-paced tutorials guide you through the text's most challenging topics; provide immediate, specific feedback and reinforcement; and present varied content to keep you engaged and on track. An emphasis on core concepts

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for solving quantitative and qualitative problems: Get a true understanding of introductory chemistry by using material that presents problem solving and comprehension as complimentary skills, rather than encouraging rote memorization.

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and inorganic solids, air, water, microorganisms, and the plant roots in soil. This book focuses on the species and reaction processes of chemicals in soils, with applications to environmental and agricultural issues. Topics range from discussion of fundamental chemical processes to review of properties and reactions of chemicals in the environment. This new edition contains more examples, more illustrations, more details of calculations, and reorganized material

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within the chapters,
including nearly 100 new
equations and 51 new
figures. Each section also
ends with an important
concepts overview as well
as new questions for
readers to answer.

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introduction to the
subject, Soil Chemistry,
5th Edition offers in-
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properties of elements and
molecules; characteristics
of chemicals in soils;
soil water chemistry;
redox reactions in soils;
mineralogy and weathering
processes in soils; and

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chemistry of soil clays. The book also provides chapters that examine production and chemistry of soil organic matter; surface properties of soil colloids; adsorption processes in soils; measuring and predicting sorption processes in soils; soil acidity; and salt-affected soils. Provides a basic description of important research and fundamental knowledge in the field of soil chemistry Contains more than 200 references provided in figure and table captions and at the

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end of the chapters

Extensively revised with
updated figures and tables

Soil Chemistry, 5th

Edition is an excellent
text for senior-level soil
chemistry students.

Adapted from Nivaldo J.

Tro's best-selling general
chemistry book, Principles
of Chemistry: A Molecular
Approach focuses

exclusively on the core
concepts of general

chemistry without
sacrificing depth or
relevance. Tro's

unprecedented two- and
three-column problem-
solving approach is used

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throughout to give students sufficient practice in this fundamental skill. A unique integration of macroscopic, molecular, and symbolic illustrations helps students to visualize the various dimensions of chemistry; Tro's engaging writing style captures student's attention with relevant applications. The Second Edition offers a wealth of new and revised problems, approximately 50 new conceptual connections, an updated art program throughout, and is

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solid-state chemistry
which is ideal for all
undergraduate levels. It
covers well the
fundamentals of the area,
from basic structures to
methods of analysis, but
also introduces modern
topics such as
sustainability." Dr.

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Jennifer Readman,
University of Central
Lancashire, UK "The latest
edition of Solid State
Chemistry combines clear
explanations with a broad
range of topics to provide
students with a firm
grounding in the major
theoretical and practical
aspects of the chemistry
of solids." Professor
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UK Building a foundation
with a thorough
description of crystalline
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Chemistry: An Introduction

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presents a wide range of the synthetic and physical techniques used to prepare and characterise solids. Going beyond this, this largely nonmathematical introduction to solid-state chemistry includes the bonding and electronic, magnetic, electrical, and optical properties of solids. Solids of particular interest—porous solids, superconductors, and nanostructures—are included. Practical examples of applications and modern developments are given. It offers

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on to complete a DPhil in theoretical chemistry with Peter Atkins. After a two-year postdoctoral position at the University of Southampton, she joined the Open University in 1975, becoming a lecturer in chemistry in 1977, senior lecturer in 1998, and reader in 2004. She retired in 2017 and currently has an honorary position at the Open University. She has produced OU teaching texts in chemistry for courses at levels 1, 2, and 3 and written texts in astronomy at level 2 and physics at

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level 3. She was team leader for the production and presentation of an Open University level 2 chemistry module delivered entirely online. She is a Fellow of the Royal Society of Chemistry and a Senior Fellow of the Higher Education Academy. She was co-chair for the successful Departmental submission of an Athena Swan bronze award. Lesley E. Smart studied chemistry at Southampton University, United Kingdom. After completing a PhD in Raman spectroscopy, she moved to a lectureship at the

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(then) Royal University of Malta. After returning to the United Kingdom, she took an SRC Fellowship to Bristol University to work on X-ray crystallography. From 1977 to 2009, she worked at the Open University chemistry department as a lecturer, senior lecturer, and Molecular Science Programme director, and she held an honorary senior lectureship there until her death in 2016. At the Open University, she was involved in the production of undergraduate courses in

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inorganic and physical
chemistry and health
sciences. She served on
the Council of the Royal
Society of Chemistry and
as the chair of their
Benevolent Fund.

Part I: Process design --
Introduction to design --
Process flowsheet
development -- Utilities
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design -- Process
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Instrumentation and
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Materials of construction
-- Capital cost estimating
-- Estimating revenues and
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