

Modeling Chemistry Unit 8 Mole Relationships Answers

The book "English & Logical Reasoning for BITSAT with past 5 years Solved Papers (2017-2013) + 10 Mock Tests (5 in Book and 5 Online Tests)" provides the Key Concepts and sufficient practice to crack this section of BITSAT. • The book contains BITSAT 2017-2013 Fully Solved Question Papers which effectively help students in the preparation process. These papers give a basic idea about the test pattern asked in the BITSAT. • The book covers English Proficiency - Vocabulary, Grammar, Reading Comprehension, Composition; Verbal Reasoning - Analogy, Classification Or Odd Man Out, Series, Logical Deduction, Chart Logic; Non- Verbal Reasoning - Pattern Perception Or Completion Of Figures, Figure Formation & Analysis, Paper Cutting, Figure matrix, Rule Detection. • The book also contains 10 Mock Papers on the pattern of BITSAT for practice. Out of the 10 Tests, 5 are provided in the form of Online Tests and 5 are provided in the book. • The Mock Online Tests provides Insta Results, Solutions and Analytics related to section-wise and chapter-wise absolute and relative feedback. The details to access the Online Tests are provided in the book. • The solutions to the 5 Mock Tests in the book are provided at the end of the tests. • The book is also empowered with Smart

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Revision Material for Physics, Chemistry and Mathematics. • This book is a One Stop Solution as the students are already prepared for JEE Main. The students require a quick revision material of PCM and detailed material on English & Logical Reasoning along with Practice Mock Tests. The Online Tests provides the online exposure to the students.

Designed as a textbook for the undergraduate students of chemical engineering and related disciplines such as biotechnology, polymer technology, petrochemical engineering, electrochemical engineering, environmental engineering and safety engineering, the chief objective of the book is to prepare students to make analysis of chemical processes through calculations and to develop systematic problem-solving skills in them. The text presents the fundamentals of chemical engineering operations and processes in a simple style that helps the students to gain a thorough understanding of chemical process calculations. The book deals with the principles of stoichiometry to formulate and solve material and energy balance problems in processes with and without chemical reactions. With the help of examples, the book explains the construction and use of reference-substance plots, equilibrium diagrams, psychrometric charts, steam tables and enthalpy composition diagrams. It also elaborates on

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thermophysics and thermochemistry to acquaint the students with the thermodynamic principles of energy balance calculations. The book is supplemented with Solutions Manual for instructors containing detailed solutions of all chapter-end unsolved problems.

NEW TO THE SECOND EDITION

- Incorporates a new chapter on Bypass, Recycle and Purge Operations
- Comprises updations in some sections and presents new sections on Future Avenues and Opportunities in Chemical Engineering, Processes in Biological and Energy Systems
- Contains several new worked-out examples in the chapter on Material Balance with Chemical Reaction
- Includes GATE questions with answers up to the year 2016 in Objective-type questions

KEY FEATURES

- SI units are used throughout the book.
- All basic chemical engineering operations and processes are introduced, and different types of problems are illustrated with worked-out examples.

- Stoichiometric principles are extended to solve problems related to bioprocessing, environmental engineering, etc.
- Exercise problems (more than 810) are organised according to the difficulty level and all are provided with answers.

Provides techniques for achieving high scores on the AP chemistry exam and includes two full-length practice tests, a subject review for all topics, and sample questions and answers.

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Steve and Susan Zumdahl's texts focus on helping students build critical thinking skills through the process of becoming independent problem-solvers. They help students learn to think like a chemists so they can apply the problem solving process to all aspects of their lives. In CHEMISTRY: AN ATOMS FIRST APPROACH, the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules, structure, and bonding, to more complex materials and their properties. Because this approach differs from what most students have experienced in high school courses, it encourages them to focus on conceptual learning early in the course, rather than relying on memorization and a plug and chug method of problem solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to evaluate outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mathematical modeling of atmospheric composition is a formidable scientific and computational challenge. This comprehensive presentation of the modeling methods used in atmospheric chemistry focuses on both theory and practice, from the

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fundamental principles behind models, through to their applications in interpreting observations. An encyclopaedic coverage of methods used in atmospheric modeling, including their advantages and disadvantages, makes this a one-stop resource with a large scope. Particular emphasis is given to the mathematical formulation of chemical, radiative, and aerosol processes; advection and turbulent transport; emission and deposition processes; as well as major chapters on model evaluation and inverse modeling. The modeling of atmospheric chemistry is an intrinsically interdisciplinary endeavour, bringing together meteorology, radiative transfer, physical chemistry and biogeochemistry, making the book of value to a broad readership. Introductory chapters and a review of the relevant mathematics make this book instantly accessible to graduate students and researchers in the atmospheric sciences.

Advances in Physical Organic Chemistry

Touted as the most successful NSF-funded project published, Chemistry in the Community (ChemCom) by the American Chemical Society (ACS) offers a meaningful and memorable chemistry program for all levels of high school students. ChemCom covers traditional chemistry topics within the context of societal issues and real-world scenarios. Centered on decision-making activities where students are responsible for generating data in an investigating, analyzing that data and then applying their chemistry knowledge to solve the presented problem. The text is intensively laboratory-based,

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with all 39 of the investigations integrated within the text, not separate from the reading. With the ChemCom program, students learn more organic and biochemistry, more environmental and industrial chemistry, and more on the particulate nature of matter than other textbooks all within the relevance of solving problems that arise in everyday life.

Meticulously updated to meet the needs of today's teachers and students, the new sixth edition of ChemCom adheres to the new science framework as well as the forthcoming next generation of science standards. Incorporating advances in learning and cognitive sciences, ChemCom's wide-ranging coverage builds upon the concepts and principles found in the National Science Education Standards. Correlations are available showing how closely aligned ChemCom is to these and other state standards ChemCom Frequently Asked Questions The following link takes you to frequently asked questions about the high school chemistry textbook, Chemistry in the Community. ACS URL

The latest edition of the book "English & Logical Reasoning for BITSAT with past 6 years Solved Papers (2018-2013) & 10 Mock Tests (5 in Book and 5 Online)" provides the Key Concepts and sufficient practice to crack this section of BITSAT. • The book contains BITSAT 2018-2013 Fully Solved Question Papers which effectively help students in the preparation process. These papers give a basic idea about the test pattern asked in the BITSAT. • The book covers English Proficiency - Vocabulary, Grammar, Reading Comprehension, Composition; Verbal Reasoning - Analogy, Classification Or Odd Man Out, Series, Logical Deduction, Chart Logic; Non- Verbal Reasoning - Pattern Perception Or Completion Of Figures, Figure Formation & Analysis, Paper Cutting, Figure matrix, Rule Detection. • The book also contains 10 Mock Papers on the pattern of BITSAT for practice. Out of the 10 Tests, 5 are provided in the form of

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Examines in a pedagogical way all pertinent molecular and macroscopic processes that govern the distribution and fate of organic chemicals in the environment and provides simple modeling tools to quantitatively describe these processes and their interplay in a given environmental system Treats fundamental aspects of chemistry, physics, and mathematical modeling as applied to environmentally relevant problems, and gives a state of the art account of the field Teaches the reader how to relate the structure of a given chemical to its physical chemical properties and intrinsic reactivities Provides a holistic and teachable treatment of phase partitioning and transformation processes, as well as a more focused and tailor-made presentation of physical, mathematical, and modeling aspects that apply to environmental situations of concern Includes a large number of questions and problems allowing teachers to explore the depth of understanding of their students or allowing individuals who use the book for self-study to check their progress Provides a companion website, which includes solutions for all problems as well as a large compilation of physical constants and compound properties Provides carefully worked out, complete solutions for all odd-numbered questions and exercises in the text. Uses the same solutions methods as examples in the text.

Introducing the Pearson Chemistry 11 Queensland Skills and Assessment Book. Fully aligned to the new QCE 2019 Syllabus. Write in Skills and Assessment Book written to

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support teaching and learning across all requirements of the new Syllabus, providing practice, application and consolidation of learning. Opportunities to apply and practice performing calculations and using algorithms are integrated throughout worksheets, practical activities and question sets. All activities are mapped from the Student Book at the recommend point of engagement in the teaching program, making integration of practice and rich learning activities a seamless inclusion. Developed by highly experienced and expert author teams, with lead Queensland specialists who have a working understand what teachers are looking for to support working with a new syllabus.

Bridges the gaps between regulatory, engineering, and science disciplines in order to comprehensively cover pollutant fate and transport in environmental multimedia This book presents and integrates all aspects of fate and transport: chemistry, modeling, various forms of assessment, and the environmental legal framework. It approaches each of these topics initially from a conceptual perspective before explaining the concepts in terms of the math necessary to model the problem so that students of all levels can learn and eventually contribute to the advancement of water quality science. The first third of Pollutant Fate and Transport in Environmental Multimedia is dedicated to the relevant aspects of chemistry behind the fate and transport processes. It provides relatively simple examples and problems to teach these principles. The second third of the book is based on the conceptual derivation and the use of common models to evaluate the importance of model parameters and sensitivity analysis; complex equation derivations are given in appendices. Computer exercises and available simulators teach and enforce the concepts and logic behind fate and transport modeling. The last third of the book is focused on various aspects of assessment (toxicology, risk, benefit-cost,

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and life cycle) and environmental legislation in the US, Europe, and China. The book closes with a set of laboratory exercises that illustrate chemical and fate and transport concepts covered in the text, with example results for most experiments. Features more introductory material on past environmental disasters and the continued need to study environmental chemistry and engineering Covers chemical toxicology with various forms of assessment, United States, European, and Chinese regulations, and advanced fate and transport modeling and regulatory implications Provides a conceptual and relatively simple mathematical approach to fate and transport modeling, yet complex derivations of most equations are given in appendices Integrates the use of numerous software packages (pC-pH, EnviroLab Simulators, Water, Wastewater, and Global Issues), and Fate©2016 Contains numerous easy-to-understand examples and problems along with answers for most end-of-the-chapter problems, and simulators for answers to fate and transport questions Includes numerous companion laboratory experiments with EnviroLab Requiring just a basic knowledge of algebra and first-year college chemistry to start, Pollutant Fate and Transport in Environmental Multimedia is an excellent textbook for upper-level undergraduate and graduate faculty and students studying environmental engineering and science.

Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.

Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving

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many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in

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a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Chemical Reactor Modeling closes the gap between Chemical Reaction Engineering and Fluid Mechanics. The second edition consists of two volumes: Volume 1: Fundamentals. Volume 2: Chemical Engineering Applications In volume 1 most of the fundamental theory is presented. A few numerical model simulation application examples are given to elucidate the link between theory and applications. In volume 2 the chemical reactor equipment to be modeled are described. Several engineering models are introduced and discussed. A survey of the frequently used numerical methods, algorithms and schemes is provided. A few practical engineering applications of the modeling tools are presented and discussed. The working principles of several experimental techniques employed in order to get data for model validation are outlined. The monograph is based on lectures regularly taught in the fourth and fifth years graduate courses in transport phenomena and chemical reactor modeling and in a post graduate course in modern reactor modeling at the Norwegian University of Science and Technology, Department of Chemical Engineering, Trondheim, Norway. The objective of the book is to present the fundamentals of the single-fluid and multi-fluid models for

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the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias. Organized into 13 chapters, it combines theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering. This book contains a survey of the modern literature in the field of chemical reactor modeling.

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'.

Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the

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definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

Presenting a concise, basic introduction to modelling and computational chemistry this text includes relevant introductory material to ensure greater accessibility to the subject. Provides a comprehensive introduction to this evolving and developing field Focuses on MM, MC, and MD with an entire chapter devoted to QSAR and Discovery Chemistry. Includes many real chemical applications combined with worked problems and solutions provided in each chapter Ensures that up-to-date treatment of a variety of chemical modeling techniques are introduced.

This book covers a wide variety of topics related to advancements in different stages of mass transfer modelling processes. Its purpose is to create a platform for the exchange of recent observations, experiences, and achievements. It is recommended for those in the chemical, biotechnological, pharmaceutical, and nanotechnology industries as well as for students of natural sciences, technical, environmental and employees in companies which manufacture machines for the above-mentioned industries. This work can also be a useful source for researchers and engineers dealing with mass transfer and related issues.

Metrology is a constantly evolving field, and one which has developed in many ways in the last four decades. This book presents the proceedings of the Enrico Fermi Summer School on the topic of Metrology, held in Varenna, Italy, from 26 June to 6 July 2017. This was the

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6th Enrico Fermi summer school devoted to metrology, the first having been held in 1976. The 2017 program addressed two major new directions for metrology: the work done in preparation for a possible re-definition of four of the base units of the SI in 2018, and the impact of the application of metrology to issues addressing quality of life – such as global climate change and clinical and food analysis – on science, citizens and society. The lectures were grouped into three modules: metrology for quality of life; fundamentals of metrology; and physical metrology and fundamental constants, and topics covered included food supply and safety; biomarkers; monitoring climate and air quality; new SI units; measurement uncertainty; fundamental constants; electrical metrology; optical frequency standards; and photometry and light metrology. The book provides an overview of the topics and changes relevant to metrology today, and will be of interest to both academics and all those whose work involves any of the various aspects of this field.

Chemistry in the Community (ChemCom) is a year-long high school chemistry course for college-bound students, structured around community issues related to chemistry. The course is about 50% laboratory-based, and features decision-making activities which give students practice in applying their chemistry knowledge in realistic decision-making situations. Concepts are presented on a "need-to-know" basis, allowing students to experience the use and application of their chemistry learning, leading to a greater sense of motivation and a feeling of ownership of their new knowledge. Because of

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the nature of the issues covered in the specific units, students learn more organic and biochemistry than in traditional courses, as well as some environmental and industrial chemistry.

Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product. This book is a tool and resource for scientists engaged in, or preparing for, the selection and optimization process. The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays. Individual drug-like properties are discussed from a practical point of view, such as solubility, permeability and metabolic stability, with regard to fundamental understanding, applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance. The authors also review various methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties. * Serves as an essential working handbook aimed at scientists and students in medicinal chemistry * Provides practical, step-by-step guidance on property fundamentals, effects, structure-property relationships, and structure modification

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strategies * Discusses improvements in pharmacokinetics from a practical chemist's standpoint Complexity and Complex Chemo-Electric Systems presents an analysis and synthesis of chemo-electric systems, providing insights on transports in electrolytes, electrode reactions, electrocatalysis, electrochemical membranes, and various aspects of heterogeneous systems and electrochemical engineering. The book describes the properties of complexity and complex chemo-electric systems as the consequence of formulations, definitions, tools, solutions and results that are often consistent with the best performance of the system. The book handles cybernetics, systems theory and advanced contemporary techniques such as optimal control, neural networks and stochastic optimizations (adaptive random search, genetic algorithms, and simulated annealing). A brief part of the book is devoted to issues such as various definitions of complexity, hierarchical structures, self-organization examples, special references, and historical issues. This resource complements Sieniutycz' recently published book, Complexity and Complex Thermodynamic Systems, with its inclusion of complex chemo-electric systems in which complexities, emergent properties and self-organization play essential roles. Covers the theory and applications of complex chemo-electric systems through modeling, analysis, synthesis and optimization Provides a clear presentation of the applications of transport theory to electrolyte solutions, heterogeneous electrochemical systems, membranes, electro-kinetic phenomena and interface processes Includes numerous explanatory

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graphs and drawings that illustrate the properties and complexities in complex chemo-electric systems Written by an experienced expert in the field of advanced methods in thermodynamics and related aspects of macroscopic physics

The goal of this is book to give a detailed presentation of multicomponent flow models and to investigate the mathematical structure and properties of the resulting system of partial differential equations. These developments are also illustrated by simulating numerically a typical laminar flame. Our aim in the chapters is to treat the general situation of multicomponent flows, taking into account complex chemistry and detailed transport phe nomena. In this book, we have adopted an interdisciplinary approach that en compasses a physical, mathematical, and numerical point of view. In par ticular, the links between molecular models, macroscopic models, mathe matical structure, and mathematical properties are emphasized. We also often mention flame models since combustion is an excellent prototype of multicomponent flow. This book still does not pretend to be a complete survey of existing models and related mathematical results. In particular, many subjects like multi phase-flows , turbulence modeling, specific applications, porous me dia, biological models, or magneto-hydrodynamics are not covered. We rather emphasize the fundamental modeling of multicomponent gaseous flows and the qualitative properties of the resulting systems of partial dif ferential equations. Part of this book was taught at the post-graduate level at the Uni versity of Paris, the University

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of Versailles, and at Ecole Poly technique in 1998-1999 to students of applied mathematics.

Chemistry For Dummies, 2nd Edition (9781119293460) was previously published as Chemistry For Dummies, 2nd Edition (9781118007303). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. See how chemistry works in everything from soaps to medicines to petroleum We're all natural born chemists. Every time we cook, clean, take a shower, drive a car, use a solvent (such as nail polish remover), or perform any of the countless everyday activities that involve complex chemical reactions we're doing chemistry! So why do so many of us desperately resist learning chemistry when we're young? Now there's a fun, easy way to learn basic chemistry. Whether you're studying chemistry in school and you're looking for a little help making sense of what's being taught in class, or you're just into learning new things, Chemistry For Dummies gets you rolling with all the basics of matter and energy, atoms and molecules, acids and bases, and much more! Tracks a typical chemistry course, giving you step-by-step lessons you can easily grasp Packed with basic chemistry principles and time-saving tips from chemistry professors Real-world examples provide everyday context for complicated topics Full of modern, relevant examples and updated to mirror current teaching methods and classroom protocols, Chemistry For Dummies puts you on the fast-track to mastering the basics of chemistry. Annotation A handbook for chemical and process

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engineers who need a solution to their practical on-the-job problems. It solves process design problems quickly, accurately and safely, with hundreds of techniques, shortcuts and calculations.

Teach the course your way with INTRODUCTORY CHEMISTRY, 6e. Available in multiple formats (standard paperbound edition, loose-leaf edition, digital MindTap Reader edition, and a hybrid edition, which includes OWLv2), this text allows you to tailor the order of chapters to accommodate your particular needs, not only by presenting topics so they never assume prior knowledge, but also by including any necessary preview or review information needed to learn that topic. The authors' question-and-answer presentation, which allows students to actively learn chemistry while studying an assignment, is reflected in three words of advice and encouragement that are repeated throughout the book: Learn It Now! This edition integrates new technological resources, coached problems in a two-column format, and enhanced art and photography, all of which dovetail with the authors' active learning approach. Even more flexibility is provided in the new MindTap Reader edition, an electronic version of the text that features interactivity, integrated media, additional self-test problems, and clickable key terms and answer buttons for worked examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The properties of proteins are determined not only by the sequence of amino-acid residues in the polypeptide chains, but also by the con figuration of the chains-the

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way in which the chains are coiled or folded. It is probable that denaturation, the loss of some of the specific properties of a native protein, may in many cases be the result simply of a change in configuration of the polypeptide chains, without any change whatever in the sequence of amino-acid residues. During the past few years great progress has been made in the attack on the determination of the sequence of amino-acid residues in the poly peptide chains of proteins, through the work of SANGER and his collaborators (109, 110) and of other investigators. There has also been significant progress in the attack on the problem of the configuration of polypeptide chains, largely through the application of the X-ray diffraction technique.

"Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

Superseding Gardiner's "Combustion Chemistry", this is an updated, comprehensive coverage of those aspects

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of combustion chemistry relevant to gas-phase combustion of hydrocarbons. The book includes an extended discussion of air pollutant chemistry and aspects of combustion, and reviews elementary reactions of nitrogen, sulfur and chlorine compounds that are relevant to combustion. Methods of combustion modeling and rate coefficient estimation are presented, as well as access to databases for combustion thermochemistry and modeling.

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