

Charles Mortimer General Chemistry Solutions Manual

The book is about calorimetry and thermal analysis methods, alone or linked to other techniques, as applied to the characterization of catalysts, supports and adsorbents, and to the study of catalytic reactions in various domains: air and wastewater treatment, clean and renewable energies, refining of hydrocarbons, green chemistry, hydrogen production and storage. The book is intended to fill the gap between the basic thermodynamic and kinetics concepts acquired by students during their academic formation, and the use of experimental techniques such as thermal analysis and calorimetry to answer practical questions. Moreover, it supplies insights into the various thermal and calorimetric methods which can be employed in studies aimed at characterizing the physico-chemical properties of solid adsorbents, supports and catalysts, and the processes related to the adsorption desorption phenomena of the reactants and/or products of catalytic reactions. The book also covers the basic concepts for physico-chemical comprehension of the relevant phenomena. Thermodynamic and kinetic aspects of the catalytic reactions can be fruitfully

investigated by means of thermal analysis and calorimetric methods, in order to better understand the sequence of the elemental steps in the catalysed reaction. So the fundamental theory behind the various thermal analysis and calorimetric techniques and methods also are illustrated.

Electrospun Nanofibers covers advances in the electrospinning process including characterization, testing and modeling of electrospun nanofibers, and electrospinning for particular fiber types and applications. Electrospun Nanofibers offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science. Electrospinning is the most commercially successful process for the production of nanofibers and rising demand is driving research and development in this field. Rapid progress is being made both in terms of the electrospinning process and in the production of nanofibers with superior chemical and physical properties. Electrospinning is becoming more efficient and more specialized in order to produce particular fiber types such as bicomponent and composite fibers, patterned and 3D nanofibers, carbon nanofibers and nanotubes, and nanofibers derived from chitosan. Provides systematic and comprehensive coverage of the manufacture, properties, and applications of nanofibers Covers recent developments in nanofibers materials including electrospinning of

bicomponent, chitosan, carbon, and conductive fibers Brings together expertise from academia and industry to provide comprehensive, up-to-date information on nanofiber research and development Offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science

The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier

of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

A slow-burning romance and a chilling mystery bind two singular men in the suspenseful first book of a new Victorian series from K. J. Charles. Lodging-house keeper Clem Talleyfer prefers a quiet life. He's happy with his hobbies, his work—and especially with his lodger Rowley Green, who becomes a friend over their long fireside evenings together. If only neat, precise, irresistible Mr. Green were interested in more than friendship. . . . Rowley just wants to be left alone—at least until he meets Clem, with his odd, charming ways and his glorious eyes. Two quiet men, lodging in the same house, coming to an understanding . . . it could be perfect. Then the brutally murdered corpse of another lodger is dumped on their doorstep and their peaceful life is shattered. Now Clem and Rowley find themselves caught up in a mystery, threatened on all sides by violent men, with a deadly London fog closing in on them. If they're to see their way through, the pair must learn to share their secrets—and their hearts. Don't miss any of the captivating Sins of the Cities novels: *AN UNSEEN ATTRACTION* | *AN UNNATURAL VICE* | *AN UNSUITABLE HEIR* And look for the enticing *Society of*

Gentlemen series by KJ Charles: THE RUIN OF GABRIEL ASHLEIGH | A FASHIONABLE INDULGENCE | A SEDITIOUS AFFAIR | A GENTLEMAN'S POSITION Praise for An Unseen Attraction "A particular pleasure of [K. J.] Charles's work is spending time with her articulate (and often scathing) protagonists, who skewer their interlocutors and make agonizing admissions with fluency that is a joy to behold. Now, in contrast, comes Clem. . . . Rowley has no problem with words; he simply chooses not to reveal his well-armored heart. What they see in each other is a generosity of spirit revealed in everyday gestures."—Publishers Weekly (starred review) "K. J. Charles is a superb storyteller and has once again crafted both an intriguing and engrossing story and a tender romance between two well-drawn protagonists whose unique personality traits inform their emotional and sexual relationships. Add to that the way she so thoroughly immerses the reader in the sights, sounds and smells of Victorian London, and the strong cast of secondary characters—some of whom will star in future books—and it's fair to say that she's got another winning series on her hands."—All About Romance Includes an excerpt from another Loveswept title.

This is a brand new edition of the leading reference work on histological techniques. It is an essential and invaluable resource suited to all those involved

with histological preparations and applications, from the student to the highly experienced laboratory professional. This is a one stop reference book that the trainee histotechnologist can purchase at the beginning of his career and which will remain valuable to him as he increasingly gains experience in daily practice. Thoroughly revised and up-dated edition of the standard reference work in histotechnology that successfully integrates both theory and practice. Provides a single comprehensive resource on the tried and tested investigative techniques as well as coverage of the latest technical developments. Over 30 international expert contributors all of whom are involved in teaching, research and practice. Provides authoritative guidance on principles and practice of fixation and staining. Extensive use of summary tables, charts and boxes. Information is well set out and easy to retrieve. Six useful appendices included (SI units, solution preparation, specimen mounting, solubility). Provides practical information on measurements, preparation solutions that are used in daily laboratory practice. Color photomicrographs used extensively throughout. Better replicates the actual appearance of the specimen under the microscope. Brand new co-editors. New material on immunohistochemical and molecular diagnostic techniques. Enables user to keep abreast of latest advances in the field. First multi-year cumulation covers six years: 1965-70.

Solvents are ubiquitous throughout the chemical industry and are found in many consumer products. As a result, interest in solvents and their environmental impact has been steadily increasing. However, in order to achieve maximum integration of new green solvents into the relevant chemical sectors, clarification of the social, economic, and environmental implications of solvent substitution are needed. This book explores the solvent life cycle, highlighting the challenges faced at various points, from production, through the supply-chain and downstream use to end-of-life treatment. It also discusses the potential benefits that a green chemistry and bio-based economy approach could bring. The current state-of-the-art of green solvents is evaluated along these lines, in addition to reviewing their applications with an appreciation of sustainability criteria. Providing a critical assessment on emerging solvents and featuring case studies and perspectives from different sectors, this is an important reference for academics and industrialists working with solvents, as well as policy-makers involved in bio-based initiatives.

Genre studies and genre approaches to literacy instruction continue to develop in many regions and from a widening variety of approaches. Genre has provided a key to understanding the varying literacy cultures of regions, disciplines, professions, and educational settings. *GENRE IN A CHANGING WORLD* provides a wide-ranging sampler of the remarkable variety of current work. The twenty-four chapters in this volume, reflecting the work of scholars in Europe, Australasia, and North and South America, were selected from the over 400 presentations at SIGET IV (the Fourth International Symposium on Genre Studies) held on the campus of UNISUL in Tubarão, Santa Catarina, Brazil in August 2007—the largest gathering on genre to that date. The chapters also represent a wide variety of approaches,

including rhetoric, Systemic Functional Linguistics, media and critical cultural studies, sociology, phenomenology, enunciation theory, the Geneva school of educational sequences, cognitive psychology, relevance theory, sociocultural psychology, activity theory, Gestalt psychology, and schema theory. Sections are devoted to theoretical issues, studies of genres in the professions, studies of genre and media, teaching and learning genre, and writing across the curriculum. The broad selection of material in this volume displays the full range of contemporary genre studies and sets the ground for a next generation of work.

In this third edition, core applications have been added along with more 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. * Fully revised concise edition covering recent developments in the field * Supports student learning with step by step explanation of fundamental principles, an appropriate level of math rigor, and pedagogical tools to aid comprehension * Encourages readers to apply theory in practical situations

This book is devoted to general questions of the chemistry of metal alkoxides – including physiochemical properties, structure, specific features of single groups of alkoxides, theoretical principles of their use, and major applications of this method in the preparation of functional materials.

Mathematics for Physical Chemistry, Third Edition, is the ideal text for students and physical chemists who want to sharpen their mathematics skills. It can help prepare the reader for an undergraduate course, serve as a supplementary text for use during a course, or serve as a reference for graduate students and practicing chemists. The text concentrates on applications instead of theory, and, although the emphasis is on physical chemistry, it can also be useful in

general chemistry courses. The Third Edition includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The first ten chapters are constructed around a sequence of mathematical topics, with a gradual progression into more advanced material. The final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems interspersed throughout the presentations Each extensive chapter contains a preview, objectives, and summary Includes topics not found in similar books, such as a review of general algebra and an introduction to group theory Provides chemistry specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics

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This book explores the relationship between the content of chemistry education and the history and philosophy of science (HPS) framework that underlies such education. It discusses the need to present an image that reflects how chemistry developed and progresses. It proposes that chemistry should be taught the way it is practiced by chemists: as a human enterprise, at the interface of scientific practice and HPS. Finally, it sets out to convince teachers to go beyond the traditional classroom practice and explore new teaching strategies. The importance of HPS has been recognized for the science curriculum since the middle of the 20th century. The need for teaching chemistry within a historical context is not difficult to understand as HPS is not far below the surface in any science classroom. A review of the literature shows that the traditional chemistry classroom, curricula, and textbooks while dealing with concepts

such as law, theory, model, explanation, hypothesis, observation, evidence and idealization, generally ignore elements of the history and philosophy of science. This book proposes that the conceptual understanding of chemistry requires knowledge and understanding of the history and philosophy of science. “Professor Niaz’s book is most welcome, coming at a time when there is an urgently felt need to upgrade the teaching of science. The book is a huge aid for adding to the usual way - presenting science as a series of mere facts - also the necessary mandate: to show how science is done, and how science, through its history and philosophy, is part of the cultural development of humanity.” Gerald Holton, Mallinckrodt Professor of Physics & Professor of History of Science, Harvard University “In this stimulating and sophisticated blend of history of chemistry, philosophy of science, and science pedagogy, Professor Mansoor Niaz has succeeded in offering a promising new approach to the teaching of fundamental ideas in chemistry. Historians and philosophers of chemistry --- and above all, chemistry teachers --- will find this book full of valuable and highly usable new ideas” Alan Rocke, Case Western Reserve University “This book artfully connects chemistry and chemistry education to the human context in which chemical science is practiced and the historical and philosophical background that illuminates that practice. Mansoor Niaz deftly weaves together historical episodes in the quest for scientific knowledge with the psychology of learning and philosophical reflections on the nature of scientific knowledge and method. The result is a compelling case for historically and

philosophically informed science education. Highly recommended!” Harvey Siegel, University of Miami “Books that analyze the philosophy and history of science in Chemistry are quite rare. ‘Chemistry Education and Contributions from History and Philosophy of Science’ by Mansoor Niaz is one of the rare books on the history and philosophy of chemistry and their importance in teaching this science. The book goes through all the main concepts of chemistry, and analyzes the historical and philosophical developments as well as their reflections in textbooks. Closest to my heart is Chapter 6, which is devoted to the chemical bond, the glue that holds together all matter in our earth. The chapter emphasizes the revolutionary impact of the concept of the ‘covalent bond’ on the chemical community and the great novelty of the idea that was conceived 11 years before quantum mechanics was able to offer the mechanism of electron pairing and covalent bonding. The author goes then to describe the emergence of two rival theories that explained the nature of the chemical bond in terms of quantum mechanics; these are valence bond (VB) and molecular orbital (MO) theories. He emphasizes the importance of having rival theories and interpretations in science and its advancement. He further argues that this VB-MO rivalry is still alive and together the two conceptual frames serve as the tool kit for thinking and doing chemistry in creative manners. The author surveys chemistry textbooks in the light of the how the books preserve or not the balance between the two theories in describing various chemical phenomena. This Talmudic approach of conceptual tension is a universal characteristic

of any branch of evolving wisdom. As such, Mansoor's book would be of great utility for chemistry teachers to examine how can they become more effective teachers by recognizing the importance of conceptual tension". Sason Shaik Saeree K. and Louis P. Fiedler Chair in Chemistry Director, The Lise Meitner-Minerva Center for Computational Quantum Chemistry, The Hebrew University of Jerusalem, ISRAEL

From a Pulitzer Prize-winning investigative reporter at The New York Times comes the troubling story of the rise of the processed food industry -- and how it used salt, sugar, and fat to addict us. Salt Sugar Fat is a journey into the highly secretive world of the processed food giants, and the story of how they have deployed these three essential ingredients, over the past five decades, to dominate the North American diet. This is an eye-opening book that demonstrates how the makers of these foods have chosen, time and again, to double down on their efforts to increase consumption and profits, gambling that consumers and regulators would never figure them out. With meticulous original reporting, access to confidential files and memos, and numerous sources from deep inside the industry, it shows how these companies have pushed ahead, despite their own misgivings (never aired publicly). Salt Sugar Fat is the story of how we got here, and it will hold the food giants accountable for the social costs that keep climbing even as some of the industry's own say, "Enough already."

Electrochromic materials, both organic and inorganic, have widespread applications in light-attenuation, displays and analysis. Written in an accessible manner, this book

provides a comprehensive treatment of all types of electrochromic systems and their many applications. Coverage develops from electrochromic scope and history to new searching presentations of optical quantification and theoretical mechanistic models. Non-electrode electrochromism and photo-electrochromism are summarised, with updated comprehensive reviews of electrochromic oxides (tungsten-trioxide particularly), metal co-ordination complexes and metal-cyanometallates, viologens and other organics; and more recent exotics such as fullerenes, hydrides, and conjugated electroactive polymers are also covered. The book concludes by examining device construction and durability. With an extensive bibliography, recent advances in the field, modern applications and a step-by-step development from simple examples to sophisticated theories, this book is ideal for researchers in materials science, polymer science, electrical engineering, physics, chemistry, bioscience and (applied) optoelectronics.

From one of the world's leading data scientists, a landmark tour of the new science of idea flow, offering revolutionary insights into the mysteries of collective intelligence and social influence If the Big Data revolution has a presiding genius, it is MIT's Alex "Sandy" Pentland. Over years of groundbreaking experiments, he has distilled remarkable discoveries significant enough to become the bedrock of a whole new scientific field: social physics. Humans have more in common with bees than we like to admit: We're social creatures first and foremost. Our most important habits of

action—and most basic notions of common sense—are wired into us through our coordination in social groups. Social physics is about idea flow, the way human social networks spread ideas and transform those ideas into behaviors. Thanks to the millions of digital bread crumbs people leave behind via smartphones, GPS devices, and the Internet, the amount of new information we have about human activity is truly profound. Until now, sociologists have depended on limited data sets and surveys that tell us how people say they think and behave, rather than what they actually do. As a result, we've been stuck with the same stale social structures—classes, markets—and a focus on individual actors, data snapshots, and steady states. Pentland shows that, in fact, humans respond much more powerfully to social incentives that involve rewarding others and strengthening the ties that bind than incentives that involve only their own economic self-interest. Pentland and his teams have found that they can study patterns of information exchange in a social network without any knowledge of the actual content of the information and predict with stunning accuracy how productive and effective that network is, whether it's a business or an entire city. We can maximize a group's collective intelligence to improve performance and use social incentives to create new organizations and guide them through disruptive change in a way that maximizes the good. At every level of interaction, from small groups to large cities, social networks can be tuned to increase exploration and engagement, thus vastly improving idea flow. Social Physics will change the way we think about how we learn

and how our social groups work—and can be made to work better, at every level of society. Pentland leads readers to the edge of the most important revolution in the study of social behavior in a generation, an entirely new way to look at life itself. With half a million copies in print, *How to Read a Book* is the best and most successful guide to reading comprehension for the general reader, completely rewritten and updated with new material. A CNN Book of the Week: “Explains not just why we should read books, but how we should read them. It’s masterfully done.” –Farheed Zakaria

Originally published in 1940, this book is a rare phenomenon, a living classic that introduces and elucidates the various levels of reading and how to achieve them—from elementary reading, through systematic skimming and inspectional reading, to speed reading. Readers will learn when and how to “judge a book by its cover,” and also how to X-ray it, read critically, and extract the author’s message from the text. Also included is instruction in the different techniques that work best for reading particular genres, such as practical books, imaginative literature, plays, poetry, history, science and mathematics, philosophy and social science works. Finally, the authors offer a recommended reading list and supply reading tests you can use measure your own progress in reading skills, comprehension, and speed.

In order to quantitatively predict the chemical reactions that hazardous materials may undergo in the environment, it is necessary to know the relative stabilities of the compounds and complexes that may be found under certain conditions. This type of

calculations may be done using consistent chemical thermodynamic data, such as those contained in this book for inorganic compounds and complexes of selenium. * Fully detailed authoritative critical review of literature. * Integrated into a comprehensive and consistent database for waste management applications. * CD ROM version.

Power, privilege, and the rigid rules of class leave two hearts yearning for connection in the sizzling new *Society of Gentlemen* novel from K. J. Charles. Among his eccentric though strictly principled group of friends, Lord Richard Vane is the confidant on whom everyone depends for advice, moral rectitude, and discreet assistance. Yet when Richard has a problem, he turns to his valet, a fixer of unparalleled genius—and the object of Richard's deepest desires. If there is one rule a gentleman must follow, it is never to dally with servants. But when David is close enough to touch, the rules of class collide with the basest sort of animal instinct: overpowering lust. For David Cyprian, burglary and blackmail are as much in a day's work as bootblacking—anything for the man he's devoted to. But the one thing he wants for himself is the one thing Richard refuses to give: his heart. With the tension between them growing to be unbearable, David's seemingly incorruptible master has left him no choice. Putting his finely honed skills of seduction and manipulation to good use, he will convince Richard to forget all about his well-meaning objections and give in to sweet, sinful

temptation. And look for the enticing Society of Gentlemen series by KJ Charles: THE RUIN OF GABRIEL ASHLEIGH | A FASHIONABLE INDULGENCE | A SEDITIOUS AFFAIR | A GENTLEMAN'S POSITION Don't miss any of the captivating Sins of the Cities novels: AN UNSEEN ATTRACTION | AN UNNATURAL VICE | AN UNSUITABLE HEIR Praise for A Gentleman's Position "Highly recommend this one—a great, angst-filled romance."—Smexy Books "I can't recommend A Gentleman's Position and the rest of the Society books enough!"—Just Love "I have absolutely loved this series and I found this to be a very satisfying conclusion. . . . I love the way things ended up for Richard and Cyprian and I was thrilled to get their story."—Joyfully Jay "Brilliant writing and storytelling! Highly recommend!"—Gay Book Reviews "This book is swoon material—grab it!"—Red Adept Reviews "What I enjoyed most about this book was the author's slow and deliberate reveal of the story from both parties' perspectives."—The Oddness of Moving Things Includes a special message from the editor, as well as an excerpt from another Loveswept title. Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

"Molecular Gels: Materials with Self-Assembled Fibrillar Networks" is a

comprehensive treatise on gelators, especially low molecular-mass gelators and the properties of their gels. The structures and modes of formation of the self-assembled fibrillar networks (SAFINs) that immobilize the liquid components of the gels are discussed experimentally and theoretically. The spectroscopic, rheological, and structural features of the different classes of low molecular-mass gelators are also presented. Many examples of the application of the principal analytical techniques for investigation of molecular gels (including SANS, SAXS, WAXS, UV-vis absorption, fluorescence and CD spectroscopies, scanning electron, transmission electron and optical microscopies, and molecular modeling) are presented didactically and in-depth, as are several of the theories of the stages of aggregation of individual low molecular-mass gelator molecules leading to SAFINs. Several actual and potential applications of molecular gels in disparate fields (from silicate replication of nanostructures to art conservation) are described. Special emphasis is placed on perspectives for future developments. This book is an invaluable resource for researchers and practitioners either already researching self-assembly and soft matter or new to the area. Those who will find the book useful include chemists, engineers, spectroscopists, physicists, biologists, theoreticians, and materials scientists. This student companion is a supplement to *Chemistry: Molecules, Matter, and*

Change, 4th edition with CD-ROM. It features guided reading strategies, collaborative learning sheets, and strategies for using CD-ROM tools.

Solutions Manual - ChemistryChemistry

This monograph examines the nature of active learning at the higher education level, the empirical research on its use, the common obstacles and barriers that give rise to faculty resistance, and how faculty and staff can implement active learning techniques. A preliminary section defines active learning and looks at the current climate surrounding the concept. A second section, entitled "The Modified Lecture" offers ways that teachers can incorporate active learning into their most frequently used format: the lecture. The following section on classroom discussion explains the conditions and techniques needed for the most useful type of exchange. Other ways to promote active learning are also described including: visual learning, writing in class, problem solving, computer-based instruction, cooperative learning, debates, drama, role playing, simulations, games, and peer teaching. A section on obstacles to implementing active learning techniques leads naturally to the final section, "Conclusions and Recommendations," which outlines the roles that each group within the university can play in order to encourage the implementation of active learning strategies. The text includes over 200 references and an index. (JB)

This first book to focus on catalytic processes from the viewpoint of green chemistry presents every important aspect: · Numerous catalytic reductions and oxidations methods · Solid-acid and solid-base catalysis · C-C bond formation reactions · Biocatalysis · Asymmetric catalysis · Novel reaction media like e.g. ionic liquids, supercritical CO₂ · Renewable raw materials Written by Roger A. Sheldon -- without doubt one of the leaders in the field with much experience in academia and industry -- and his co-workers, the result is a unified whole, an indispensable source for every scientist looking to improve catalytic reactions, whether in the college or company lab.

Functional advanced biopolymers have received far less attention than renewable biomass (cellulose, rubber, etc.) used for energy production. Among the most advanced biopolymers known is chitosan. The term chitosan refers to a family of polysaccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere. Chitosan has been firmly established as having unique material properties as well as biological activities. Either in its native form or as a chemical derivative, chitosan is amenable to being processed—typically under mild conditions—into soft materials such as hydrogels, colloidal nanoparticles, or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene

transfectability, and metal adsorption—to name but a few—chitosan is regarded as a widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated account addressing some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization, as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and applications.

The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity when new active learning approaches to education are yielding dramatic improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories.

The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

This practical coursebook introduces all the basics of semantics in a simple, step-by-step fashion. Each unit includes short sections of explanation with examples, followed by stimulating practice exercises to complete in the book. Feedback and

comment sections follow each exercise to enable students to monitor their progress. No previous background in semantics is assumed, as students begin by discovering the value and fascination of the subject and then move through all key topics in the field, including sense and reference, simple logic, word meaning and interpersonal meaning. New study guides and exercises have been added to the end of each unit to help reinforce and test learning. A completely new unit on non-literal language and metaphor, plus updates throughout the text significantly expand the scope of the original edition to bring it up-to-date with modern teaching of semantics for introductory courses in linguistics as well as intermediate students.

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