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"... Contains the solution to every exercise and problem in Physical chemistry with the exception of Problem 22.58, which assigns a rather complicated computer program."--Preface.

The 4th Edition of Cengel & Boles Thermodynamics: An Engineering Approach takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging,

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student-oriented conversational writing style, this book is now the most widely adopted thermodynamics text in the U.S. and in the world.

A newly updated and expanded edition that combines theory and applications of turbomachinery while covering several different types of turbomachinery. In mechanical engineering, turbomachinery describes machines that transfer energy between a rotor and a fluid, including turbines, compressors, and pumps. Aiming for a unified treatment of the subject matter, with consistent notation and concepts, this new edition of a highly popular book provides all

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new information on turbomachinery, and includes 50% more exercises than the previous edition. It allows readers to easily move from a study of the most successful textbooks on thermodynamics and fluid dynamics to the subject of turbomachinery. The book also builds concepts systematically as progress is made through each chapter so that the user can progress at their own pace. Principles of Turbomachinery, 2nd Edition provides comprehensive coverage of everything readers need to know, including chapters on: thermodynamics, compressible flow, and principles of turbomachinery analysis. The book also looks at steam turbines, axial turbines, axial

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compressors, centrifugal compressors and pumps, radial inflow turbines, hydraulic turbines, hydraulic transmission of power, and wind turbines. New chapters on droplet laden flows of steam and oblique shocks help make this an incredibly current and well-rounded resource for students and practicing engineers. Includes 50% more exercises than the previous edition Uses MATLAB or GNU/OCTAVE for all the examples and exercises for which computer calculations are needed, including those for steam Allows for a smooth transition from the study of thermodynamics, fluid dynamics, and heat transfer to the subject of turbomachinery for

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students and professionals

Organizes content so that more difficult material is left to the later sections of each chapter, allowing instructors to customize and tailor their courses for their students

Principles of Turbomachinery is an excellent book for students and professionals in mechanical, chemical, and aeronautical engineering.

Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical

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processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) "Microscopic Dynamics" introduces single molecule experiments; and (2) "Molecular Machines" considers how nanoscale machines and engines work. "The Logic of Thermodynamics" has been expanded to its own chapter and now covers heat, work, processes,

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pathways, and cycles. New practical applications, examples, and end-of-chapter questions are integrated throughout the revised and updated text, exploring topics in biology, environmental and energy science, and nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts.

University Physics

Thermodynamics

Molecular Thermodynamics of Fluid-
Phase Equilibria

Quantitative Fundamentals of
Molecular and Cellular

Bioengineering

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Thermodynamics and Statistical Mechanics for Scientists and Engineers

Calculus on Manifolds

Soft matter (polymers, colloids, surfactants, liquid crystals) are an important class of materials for modern and future technologies. They are complex materials that behave neither like a fluid nor a solid. This book describes the characteristics of such materials and how we can understand such characteristics in the language of physics.

Principles of Electronic Materials and Devices, Third Edition, is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices, Second Edition. It is designed for a

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first course on electronic materials given in Materials Science and Engineering, Electrical Engineering, and Physics and Engineering Physics Departments at the undergraduate level. The third edition has numerous revisions that include more beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders.

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Advanced topics have been collected under Additional Topics, which are not necessary in a short introductory treatment.

Molecular Driving Forces Statistical Thermodynamics in Biology,

Chemistry, Physics, and

Nanoscience Garland Science

Complex systems that bridge the traditional disciplines of physics, chemistry, biology, and materials science can be studied at an unprecedented level of detail using increasingly sophisticated theoretical methodology and high-speed computers. The aim of this book is to prepare burgeoning users and developers to become active participants in this exciting and rapidly advancing research area by uniting for the first time, in one monograph, the basic concepts of

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equilibrium and time-dependent statistical mechanics with the modern techniques used to solve the complex problems that arise in real-world applications. The book contains a detailed review of classical and quantum mechanics, in-depth discussions of the most commonly used ensembles simultaneously with modern computational techniques such as molecular dynamics and Monte Carlo, and important topics including free-energy calculations, linear-response theory, harmonic baths and the generalized Langevin equation, critical phenomena, and advanced conformational sampling methods. Burgeoning users and developers are thus provided firm grounding to become active participants in this exciting and rapidly advancing

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research area, while experienced practitioners will find the book to be a useful reference tool for the field.

Solutions Manual to Accompany Inorganic Chemistry 7th Edition Thermal Physics

Introduction to Molecular Thermodynamics

Fundamentals of Analytical Chemistry

Principles of Turbomachinery

Inorganic Chemistry fifth edition represents an integral part of a student's chemistry education. Basic chemical principles are set out clearly in 'Foundations' and are fully developed throughout the text, culminating in the cutting-edge research topics of the 'Frontiers', which

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illustrate the dynamic nature of inorganic chemistry. Building up gradually from first principles, this unique introduction to modern thermodynamics integrates classical, statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering. In addition to covering traditional problems in engineering thermodynamics in the context of biology and materials chemistry, students are also introduced to the thermodynamics of DNA, proteins, polymers and surfaces. It includes over 80 detailed worked examples,

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covering a broad range of scenarios such as fuel cell efficiency, DNA/protein binding, semiconductor manufacturing and polymer foaming, emphasizing the practical real-world applications of thermodynamic principles; more than 300 carefully tailored homework problems, designed to stretch and extend students' understanding of key topics, accompanied by an online solution manual for instructors; and all the necessary mathematical background, plus resources summarizing commonly used symbols, useful equations of state, microscopic balances

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for open systems, and links to useful online tools and datasets.

"an impressive text that addresses a glaring gap in the teaching of physical chemistry, being specifically focused on biologically-relevant systems along with a practical focus.... the ample problems and tutorials throughout are much appreciated." -Tobin R.

Sosnick, Professor and Chair of Biochemistry and Molecular Biology, University of Chicago
"Presents both the concepts and equations associated with statistical thermodynamics in a unique way that is at visual, intuitive, and rigorous. This approach will greatly benefit

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students at all levels." -Vijay

S. Pande, Henry Dreyfus

Professor of Chemistry,

Stanford University "a

masterful tour de force....

Barrick's rigor and

scholarship come through in

every chapter." -Rohit V.

Pappu, Edwin H. Murty

Professor of Engineering,

Washington University in St.

Louis This book provides a

comprehensive, contemporary

introduction to developing a

quantitative understanding of

how biological

macromolecules behave using

classical and statistical

thermodynamics. The author

focuses on practical skills

needed to apply the

underlying equations in real

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life examples. The text develops mechanistic models, showing how they connect to thermodynamic observables, presenting simulations of thermodynamic behavior, and analyzing experimental data. The reader is presented with plenty of exercises and problems to facilitate hands-on learning through mathematical simulation. Douglas E. Barrick is a professor in the Department of Biophysics at Johns Hopkins University. He earned his Ph.D. in biochemistry from Stanford University, and a Ph.D. in biophysics and structural biology from the University of Oregon. The Solutions Manual to

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accompany Elements of Physical Chemistry 6th edition contains full worked solutions to all end-of-chapter discussion questions and exercises featured in the book. The manual provides helpful comments and friendly advice to aid understanding. It is also a valuable resource for any lecturer who wishes to use the extensive selection of exercises featured in the text to support either formative or summative assessment, and wants labour-saving, ready access to the full solutions to these questions.

Physical Biology of the Cell Manual

An Introduction

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**Solutions Manual to
Accompany Physical
Chemistry
Instructor's Solutions Manual
to Accompany Atkins' Physical
Chemistry, Ninth Edition
Solutions Manual to
Accompany Elements of
Physical Chemistry**

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. The perfect way to prepare for exams, build problem-solving skills, and get the grade you want! Offering detailed solutions to all in-text and end-of-chapter problems,

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this comprehensive guide helps you achieve a deeper intuitive understanding of chapter material through constant reinforcement and practice. The result is much better preparation for in-class quizzes and tests, as well as for national standardized tests such as the DAT and MCAT. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

As you master each chapter in Inorganic Chemistry, having detailed solutions handy allows you to confirm your answers and develop your ability to think through the problem-solving process.

In Thermal Physics:

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Thermodynamics and Statistical Mechanics for Scientists and Engineers, the fundamental laws of thermodynamics are stated precisely as postulates and subsequently connected to historical context and developed mathematically. These laws are applied systematically to topics such as phase equilibria, chemical reactions, external forces, fluid-fluid surfaces and interfaces, and anisotropic crystal-fluid interfaces. Statistical mechanics is presented in the context of information theory to quantify entropy, followed by development of the most important ensembles: microcanonical, canonical, and grand canonical. A unified treatment of ideal classical,

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Fermi, and Bose gases is presented, including Bose condensation, degenerate Fermi gases, and classical gases with internal structure. Additional topics include paramagnetism, adsorption on dilute sites, point defects in crystals, thermal aspects of intrinsic and extrinsic semiconductors, density matrix formalism, the Ising model, and an introduction to Monte Carlo simulation. Throughout the book, problems are posed and solved to illustrate specific results and problem-solving techniques. Includes applications of interest to physicists, physical chemists, and materials scientists, as well as materials, chemical, and mechanical engineers Suitable as a

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textbook for advanced undergraduates, graduate students, and practicing researchers

Develops content systematically with increasing order of complexity

Self-contained, including nine appendices to handle necessary background and technical details

Soft Matter Physics

Molecular Cell Biology Solutions Manual

Statistical Physics of Biomolecules

From Theory to Application

Science of Change

An Integrated Approach

The classic guide to mixtures, completely updated with new models, theories, examples, and data. Efficient separation operations and many other chemical processes depend upon a

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thorough understanding of the properties of gaseous and liquid mixtures. Molecular Thermodynamics of Fluid-Phase Equilibria, Third Edition is a systematic, practical guide to interpreting, correlating, and predicting thermodynamic properties used in mixture-related phase-equilibrium calculations. Completely updated, this edition reflects the growing maturity of techniques grounded in applied statistical thermodynamics and molecular simulation, while relying on classical thermodynamics, molecular physics, and physical chemistry wherever these fields offer superior solutions. Detailed new coverage includes: Techniques for improving separation processes and making them more

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Theoretical concepts enabling the description and interpretation of solution properties. New models, notably the lattice-fluid and statistical associated-fluid theories.

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Coverage also includes:

fundamentals of classical thermodynamics of phase equilibria; thermodynamic properties from volumetric data; intermolecular forces; fugacities in gas and liquid mixtures; solubilities of gases and solids in liquids; high-pressure phase equilibria; virial coefficients for quantum gases; and

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much more. Throughout, Molecular Thermodynamics of Fluid-Phase Equilibria strikes a perfect balance between empirical techniques and theory, and is replete with useful examples and experimental data. More than ever, it is the essential resource for engineers, chemists, and other professionals working with mixtures and related processes.

The manual provides complete step-by-step solutions to all textbook problems.

"The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the book. It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem

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solving, employing open-ended questions and stressing the Socratic method. Clear and organized, it integrates text, visuals, and computer simulations to help readers solve even the most challenging problems through reasoning, rather than by memorizing equations."--BOOK JACKET.

Learn classical thermodynamics alongside statistical mechanics and how macroscopic and microscopic ideas interweave with this fresh approach to the subjects.

Student Solutions Manual to Accompany Atkins' Physical Chemistry 11th Edition

Student Solutions Manual to the Second Editions of Chemistry, Bailar ... [et Al.] and Chemistry with Inorganic Qualitative Analysis,

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Moeller ... [et Al.]

Solutions Manual for Chemistry:
Molecules Matter and Change,
Fourth Edition

Molecular Engineering

Thermodynamics

Study Guide with Solutions Manual
for Brown/Iverson/Anslyn/Foote's
Organic Chemistry, 7th

Statistical Thermodynamics in
Biology, Chemistry, Physics, and
Nanoscience

A comprehensive presentation of essential topics for biological engineers, focusing on the development and application of dynamic models of biomolecular and cellular phenomena. This book

describes the fundamental molecular and cellular events responsible for biological function, develops models to study biomolecular and cellular phenomena, and shows, with examples, how models are applied in the design and interpretation of experiments on biological systems. Integrating molecular cell biology with quantitative engineering analysis and design, it is the first textbook to offer a comprehensive presentation of these essential topics for chemical and biological

engineering. The book systematically develops the concepts necessary to understand and study complex biological phenomena, moving from the simplest elements at the smallest scale and progressively adding complexity at the cellular organizational level, focusing on experimental testing of mechanistic hypotheses. After introducing the motivations for formulation of mathematical rate process models in biology, the text goes on to cover such topics

as noncovalent binding interactions; quantitative descriptions of the transient, steady state, and equilibrium interactions of proteins and their ligands; enzyme kinetics; gene expression and protein trafficking; network dynamics; quantitative descriptions of growth dynamics; coupled transport and reaction; and discrete stochastic processes. The textbook is intended for advanced undergraduate and graduate courses in chemical engineering and bioengineering, and has

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been developed by the authors for classes they teach at MIT and the University of Minnesota. This text teaches the principles underlying modern chemical kinetics in a clear, direct fashion, using several examples to enhance basic understanding. Solutions to selected problems. 2001 edition. /div The Student Solutions Manual to accompany Atkins' Physical Chemistry 11th Edition provides full worked solutions to the "a" exercises, and the odd-numbered discussion

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questions and problems presented in the parent book. The manual is intended for students and provides helpful comments and friendly advice to aid understanding.

The Instructor's solutions manual to accompany Atkins' Physical Chemistry provides detailed solutions to the 'b' exercises and the even-numbered discussion questions and problems that feature in the ninth edition of Atkins' Physical Chemistry . The manual is intended for instructors and consists of material that is

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not available to
undergraduates. The manual
is free to all adopters of the
main text.

Student Solutions Manual,
Study Guide, and Problems
Book to Accompany Garrett
& Grisham, Biochemistry,
Second Edition

A Modern Approach to
Classical Theorems of
Advanced Calculus

Elements of Chemical
Reaction Engineering
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Applied Mathematics And
Modeling For Chemical
Engineers

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Biomolecular

Thermodynamics

From the hydrophobic effect to protein-ligand binding, statistical physics is relevant in almost all areas of molecular biophysics and biochemistry, making it essential for modern students of molecular behavior. But traditional presentations of this material are often difficult to penetrate. *Statistical Physics of Biomolecules: An Introduction* brings

This complete solutions manual and study guide is the perfect way to prepare for exams, build problem-solving skills, and get the

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University Physics provides an authoritative treatment of physics. This book discusses the linear motion with constant acceleration; addition and subtraction of vectors; uniform circular motion and simple harmonic

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motion; and electrostatic energy of a charged capacitor. The behavior of materials in a non-uniform magnetic field; application of Kirchhoff's junction rule; Lorentz transformations; and Bernoulli's equation are also deliberated. This text likewise covers the speed of electromagnetic waves; origins of quantum physics; neutron activation analysis; and interference of light. This publication is beneficial to physics, engineering, and mathematics students intending to acquire a general knowledge of physical laws and conservation principles.

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Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that Shriver and Atkins' Inorganic Chemistry Instructor's Solutions Manual for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition, Volume One Study Guide with Student

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Solutions Manual and Problems Book
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Student Solutions Manual for Physical Chemistry
Principles of Electronic Materials and Devices

Work more effectively and check solutions as you go along with the text! The Student Solutions Manual contains worked-out solutions for selected problems from Brady's Chemistry: Matter and Its Changes, 4th Edition. Brady and Senese's Chemistry: Matter and Its Changes, 4th Edition, is a reader-friendly textbook that makes the content accessible without sacrificing

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either breadth or depth of coverage. The text's informal writing style, emphasis on problem solving, and state-of-the-art media package make this book an ideal fit for readers of various backgrounds and abilities. The 4th edition welcomes new co-author Fred Senese, the architect of the most visited general chemistry website. Together Jim Brady and Fred Senese offer accurate, lucid, and interesting explanations of the basic concepts of chemistry, as well as comprehensive coverage and aid to readers in developing problem solving skills.

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This textbook provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health sciences. It is particularly suitable for students planning to enter the pharmaceutical industry. This new generation of molecular biologists and biochemists will harness the tools and insights of physics and chemistry to exploit the emergence of genomics and systems-level information in biology, and will shape the future of medicine.

Starting with just a few basic principles of probability and the distribution of energy,

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Introduction to Molecular Thermodynamics takes students on an adventure into the inner workings of the molecular world like no other, from probability to Gibbs energy and beyond, following a logical step-by-step progression of ideas.

This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

First Edition

Molecular Driving Forces

Statistical Mechanics: Theory

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and Molecular Simulation

Matter and Its Changes

Student Solutions Manual to

Accompany Chemistry

An Engineering Approach

This Second Edition of the go-to reference combines the classical analysis and modern applications of applied mathematics for chemical engineers. The book introduces traditional techniques for solving ordinary differential equations (ODEs), adding new material on approximate solution methods such as perturbation techniques and elementary numerical solutions. It also

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includes analytical methods to deal with important classes of finite-difference equations.

The last half discusses numerical solution techniques and partial differential equations (PDEs). The reader will then be equipped to apply mathematics in the formulation of problems in chemical engineering. Like the first edition, there are many examples provided as homework and worked examples.

Physical Chemistry for the Biosciences has been optimized for a one-semester introductory course in

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physical chemistry for students of biosciences.

With its modern emphasis on the molecular view of physical chemistry, its wealth of contemporary applications, vivid full-color presentation, and dynamic new media tools, the thoroughly revised new edition is again the most modern, most effective full-length textbook available for the physical chemistry classroom. Available in Split Volumes For maximum flexibility in your physical chemistry course, this text is now offered as a traditional text or in two volumes.

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approach, this fully updated
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FUNDAMENTALS OF

ANALYTICAL CHEMISTRY

offers extensive coverage of
the principles and practices of
analytic chemistry and
consistently shows students
its applied nature. The book's
award-winning authors begin

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each chapter with a story and photo of how analytic chemistry is applied in industry, medicine, and all the sciences. To further reinforce student learning, a wealth of dynamic photographs by renowned chemistry photographer Charlie Winters appear as chapter-openers and throughout the text. Incorporating Excel spreadsheets as a problem-solving tool, the Ninth Edition is enhanced by a chapter on Using Spreadsheets in Analytical Chemistry, updated spreadsheet summaries and problems, an Excel Shortcut

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Keystrokes for the PC insert card, and a supplement by the text authors, EXCEL APPLICATIONS FOR ANALYTICAL CHEMISTRY, which integrates this important aspect of the study of analytical chemistry into the book's already rich pedagogy. New to this edition is OWL, an online homework and assessment tool that includes the Cengage YouBook, a fully customizable and interactive eBook, which enhances conceptual understanding through hands-on integrated multimedia interactivity. Available with

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