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Quantitative Chemical Analysis, Sixth Edition *Macmillan*

For instructors who wish to focus on practical, industrial, or research chemistry. Includes case studies, applications boxes, and spreadsheet applications.

Quantitative Chemical Analysis *Macmillan Higher Education*

The gold standard in analytical chemistry, Dan Harris' Quantitative Chemical Analysis provides a sound physical understanding of the principles of analytical chemistry and their applications in the disciplines.

An Introductory Course Of Quantitative Chemical Analysis, With Explanatory Notes And Stoichiometrical Problems *Alpha Edition*

An Introductory Course Of Quantitative Chemical Analysis, With Explanatory Notes And Stoichiometrical Problems has

been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature.

Solid State Chemical Sensors *Academic Press*

Solid State Chemical Sensors reviews the basic chemical and physical principles involved in the construction and operation of solid state sensors. A major portion of the book is devoted to explanation of the basic mechanism of operation and the many actual and potential applications of field effect transistors for gas and solution sensing. This text is comprised of four chapters; the first of which describes the basics of device fabrication. Emphasis is placed on the physical description of semiconductor devices with catalytic metal gates, along with their drawbacks and their promise. The behavior of hydrogen in the Pd-SiO₂ system is also considered, and some applications of hydrogen-sensitive transistors, such as smoke detection and biochemical reaction monitoring, are described. The second chapter focuses on chemically sensitive field effect transistors and their thermodynamics, while the third chapter explains the general fabrication procedure for solid state chemical sensors. The final chapter introduces the reader to piezoelectric and pyroelectric chemical sensors, paying particular attention to the sensor nature of piezoelectricity, the piezoelectric gravimetric sensor, and pyroelectric gas analysis. This book is intended to assist

electrical engineers in understanding the chemistry involved in the construction and operation of solid state sensors and to educate chemists in solid state science.

Vogels Textbook Of Quantitative Chemical Analysis *Pearson Education India*

Vogel's Textbook of Quantitative Chemical Analysis *Longman*

Analysts need to understand the concepts behind methods and Vogel's Quantitative Chemical Analysis provides clear introductions to all the key analytical methods including those involving advanced computerised equipment available in many analytical laboratories. The editors have built further on the work of Dr. Vogel, modernising the approach while retaining the analytical concepts and ideas which were built into the original work.

Quantitative Chemical Analysis *W. H. Freeman*

The gold standard in analytical chemistry, Dan Harris' Quantitative Chemical Analysis provides a sound physical understanding of the principles of analytical chemistry and their applications in the disciplines.

Analytical Chemistry and Quantitative Analysis *Pearson Education*

This title presents concepts and procedures in a manner that reflects the practice and applications of these methods in today's analytical laboratories. The fundamental principles of laboratory techniques for chemical analysis are introduced, along with issues to consider in the appropriate

selection and use of these methods.

Quantitative Chemical Analysis

World Scientific Publishing Company

This book covers both fundamental and practical aspects of chemical analysis: Data Process and Analysis; Chemical Equilibria and Volumetric titrations; Gravimetry; Spectrophotometry; Sample Preparation and Separation Methods in Quantitative Analysis. It was written with the rich tradition of teaching at Peking University College of Chemistry, and edited by an American professor who was personally sensitive to the needs of students learning science from traditional chemistry textbooks written in English. Many examples and illustrative problems in this text have been taken from previous textbooks by the Peking University Team Teaching Program. The book can be used as a starter in analytical chemistry which is fundamental and the base upon which chemistry is built. Traditional chapters of initial learning in analytical chemistry are included, such as volumetric, gravimetric and separation methods; the book also includes key chapters on problem solving relating to recent progress in analytical chemistry.

Structural Analysis

CRC Press

This comprehensive textbook combines classical and matrix-based methods of structural analysis and develops them concurrently. It is widely used by civil and structural engineering lecturers and students because of its clear and thorough style and content. The text is used for undergraduate and graduate courses and serves as reference in structural engineering practice. With its six translations, the book is used internationally, independent of codes of practice and regardless of the adopted

system of units. Now in its seventh edition: the introductory background material has been reworked and enhanced throughout, and particularly in early chapters, explanatory notes, new examples and problems are inserted for more clarity., along with 160 examples and 430 problems with solutions. dynamic analysis of structures, and applications to vibration and earthquake problems, are presented in new sections and in two new chapters the companion website provides an enlarged set of 16 computer programs to assist in teaching and learning linear and nonlinear structural analysis. The source code, an executable file, input example(s) and a brief manual are provided for each program.

Trace Quantitative Analysis by Mass Spectrometry

John Wiley & Sons

This book provides a serious introduction to the subject of mass spectrometry, providing the reader with the tools and information to be well prepared to perform such demanding work in a real-life laboratory. This essential tool bridges several subjects and many disciplines including pharmaceutical, environmental and biomedical analysis that are utilizing mass spectrometry: Covers all aspects of the use of mass spectrometry for quantitation purposes Written in textbook style to facilitate understanding of this topic Presents fundamentals and real-world examples in a 'learning-thought-doing' style

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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 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 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 InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Text-book of Macro and Semimicro Qualitative Inorganic Analysis

Modern Analytical Chemistry
McGraw-Hill Science, Engineering &

Mathematics

Modern Analytical Chemistry is a one-semester introductory text that meets the needs of all instructors. With coverage in both traditional topics and modern-day topics, instructors will have the flexibility to customize their course into what they feel is necessary for their students to comprehend the concepts of analytical chemistry.

Solutions Manual for Quantitative Chemical Analysis *W H Freeman & Company*

Symmetry and Spectroscopy *Courier Corporation*

Informal, effective undergraduate-level text introduces vibrational and electronic spectroscopy, presenting applications of group theory to the interpretation of UV, visible, and infrared spectra without assuming a high level of background knowledge. 200 problems with solutions. Numerous illustrations. "A uniform and consistent treatment of the subject matter." — Journal of Chemical Education.

Recent Advances in Analytical Chemistry *BoD - Books on Demand*

This book focuses on recent and future trends in analytical methods and provides an overview of analytical chemistry. As a comprehensive analytical chemistry book, it takes a broad view of the subject and integrates a wide variety of approaches. The book provides separation approaches and method validation, as well as recent developments and applications in analytical chemistry. It is written primarily for researchers in the fields of analytical chemistry, environmental chemistry, and applied chemistry. The aim of the book is to explain the subject,

clarify important studies, and compare and develop new and groundbreaking applications. Written by leading experts in their respective areas, the book is highly recommended for professionals interested in analytical chemistry because it provides specific and comprehensive examples.

Sample Preparation Techniques in Analytical Chemistry *John Wiley & Sons*

The importance of accurate sample preparation techniques cannot be overstated--meticulous sample preparation is essential. Often overlooked, it is the midway point where the analytes from the sample matrix are transformed so they are suitable for analysis. Even the best analytical techniques cannot rectify problems generated by sloppy sample pretreatment. Devoted entirely to teaching and reinforcing these necessary pretreatment steps, *Sample Preparation Techniques in Analytical Chemistry* addresses diverse aspects of this important measurement step. These include: * State-of-the-art extraction techniques for organic and inorganic analytes * Sample preparation in biological measurements * Sample pretreatment in microscopy * Surface enhancement as a sample preparation tool in Raman and IR spectroscopy * Sample concentration and clean-up methods * Quality control steps

Designed to serve as a text in an undergraduate or graduate level curriculum, *Sample Preparation Techniques in Analytical Chemistry* also provides an invaluable reference tool for analytical chemists in the chemical, biological, pharmaceutical, environmental, and materials sciences.

Vogel's Textbook of Quantitative Chemical Analysis *Prentice Hall*

This updated book of quantitative inorganic analysis has been extended to incorporate sections of basic theory and modern approaches to sampling as well as the attendant difficulties in obtaining representative samples from bulk materials. The statistics have been restructured to provide a logical stepwise approach and the section covering solvent extraction and chromatographic procedures has been extensively revised. details of Fourier Transform techniques and derivative spectroscopy are included for the first time along with a general up-date on instrument design. A full revision has been made of the appendices and other tables have been extended to include more organic compounds and additional appendices include correlation tables for infrared, absorption characteristics for ultraviolet/visible and additional statistical tables along with essential atomic weights. chemistry is a substantial laboratory requirement, as well as for technicians and practising analysts.

Foundations of Analytical Chemistry *Springer*

This book offers a completely new approach to learning and teaching the fundamentals of analytical chemistry. It summarizes 250 basic concepts of the field on the basis of slides. Each of the nine chapters offers the following features: • Introduction: Summary. General scheme. Teaching objectives. • Text containing the explanation of each slide. • Recommended and commented bibliography. • Questions to be answered. • Slides. A distinct feature of this novel book is its focus on the fundamental concepts and essential

principles of analytical chemistry, which sets it apart from other books presenting descriptive overviews of methods and techniques.

Exploring Chemical Analysis *Macmillan*

Exploring Chemical Analysis provides an ideal one-term introduction to analytical chemistry for students whose primary interests generally lie outside of chemistry. Combining coverage of all major analytical topics with effective problem-solving methods, it teaches students how to understand analytical results and how to use quantitative manipulations, preparing them for the problems they will encounter in fields from biology to chemistry to geology. Consistent Approach to Problem Solving By providing Test Yourself questions (which break down problem-solving to more elementary steps) at the end of each worked example, students can check their understanding of the concepts covered in each worked example. Integrated Spreadsheet Applications The text can be used without ever opening a spreadsheet application, but the early introduction of spreadsheets allows more flexibility. Problems marked with a spreadsheet icon denote problems that can be answered with a spreadsheet. Chapter Openers show the relevance of analytical chemistry to the real world and to other disciplines of science. New Applications through the book include: • solid-phase extraction for the measurement of caffeine • measuring the common cold virus with an imprinted polymer on a quartz crystal microbalance • a precipitation titration conducted on the Phoenix Mars Lander • updated classroom data from a saltwater aquarium • microdialysis in biological

sampling, measuring pH of oceans and rivers by spectrophotometry with indicators • continued highlighting of the effects of increasing carbon dioxide in the air and ocean • a description of the lithium-ion battery • how perchlorate was discovered on Mars with ion-selective electrodes • protein immunosensing with solid-state ion-selective electrodes • X-ray photoemission from the peeling of tape • how a home pregnancy test works • laser-ablation atomic emission on Mars • lead isotopes in archaeology • bisphenol A in food containers • measuring trans fat in food with an ionic liquid gas chromatography stationary phase • chromated copper arsenate preservative in wood • preconcentration of trace elements from seawater • simultaneous separation of anions and cations • detecting contaminated heparin • DNA profiling with a lab on a chip New topics in this edition include: • The F test for comparison of variance is introduced early in the chapter on statistics. • The meaning of statistical hypothesis testing is explained with an example from epidemiology. • Propagation of uncertainty for pH is described. • New topics in liquid chromatography include ultra-performance liquid chromatography, superficially porous particles, hydrophilic interaction chromatography, a waveguide absorbance detector, and an illustration of the charged aerosol detector. • An improved diagram showing the working of an electronic balance and a photograph of the optical train of an ultraviolet-visible spectrophotometer are included. Updated instructions for Excel spreadsheets to Excel 2007.

Organic Reagents in Metal Analysis *Elsevier*

International Series of Monographs in Analytical Chemistry, Volume 54: Organic Reagents in Metal Analysis focuses on the factors determining the analytical selectivity of complexation reactions. This book consists of three chapters. Chapter 1 deals with the effects of stability and electronic structure of complexes and formation of mixed ligand complexes on analytical selectivity. The analytical procedures for the accomplishment of many metal analytical tasks are reviewed in Chapter 2. The last chapter provides a tabulated data that facilitates experimental work in the field of metal analysis. This volume is useful to practical analysts and researchers engaged with developments in the field of analytical chemistry and routine metal analyses.

Chemical Analysis and Material Characterization by Spectrophotometry Elsevier

Chemical Analysis and Material Characterization by Spectrophotometry integrates and presents the latest known information and examples from the most up-to-date literature on the use of this method for chemical analysis or materials characterization. Accessible to various levels of expertise, everyone from students, to practicing analytical and industrial chemists, the book covers both the fundamentals of spectrophotometry and instrumental procedures for quantitative analysis with spectrophotometric techniques. It contains a wealth of examples and focuses on the latest research, such as the investigation of optical properties of nanomaterials and thin solid films. Covers the basic analytical theory that is essential for understanding spectrophotometry Emphasizes minor/trace chemical component

analysis Includes the spectrophotometric analysis of nanomaterials and thin solid films Thoroughly describes methods and uses easy-to-follow, practical examples and experiments

Vogel's Quantitative Chemical Analysis Pearson Education India

Introduction to Pharmaceutical Analytical Chemistry John Wiley & Sons

The definitive textbook on the chemical analysis of pharmaceutical drugs – fully revised and updated Introduction to Pharmaceutical Analytical Chemistry enables students to gain fundamental knowledge of the vital concepts, techniques and applications of the chemical analysis of pharmaceutical ingredients, final pharmaceutical products and drug substances in biological fluids. A unique emphasis on pharmaceutical laboratory practices, such as sample preparation and separation techniques, provides an efficient and practical educational framework for undergraduate studies in areas such as pharmaceutical sciences, analytical chemistry and forensic analysis. Suitable for foundational courses, this essential undergraduate text introduces the common analytical methods used in quantitative and qualitative chemical analysis of pharmaceuticals. This extensively revised second edition includes a new chapter on chemical analysis of biopharmaceuticals, which includes discussions on identification, purity testing and assay of peptide and protein-based formulations. Also new to this edition are improved colour illustrations and tables, a streamlined chapter structure and text revised for increased clarity and comprehension. Introduces

the fundamental concepts of pharmaceutical analytical chemistry and statistics Presents a systematic investigation of pharmaceutical applications absent from other textbooks on the subject Examines various analytical techniques commonly used in pharmaceutical laboratories Provides practice problems, up-to-date practical examples and detailed illustrations Includes updated content aligned with the current European and United States Pharmacopeia regulations and guidelines Covering the analytical techniques and concepts necessary for pharmaceutical analytical chemistry, *Introduction to Pharmaceutical Analytical Chemistry* is ideally suited for students of chemical and pharmaceutical sciences as well as analytical chemists transitioning into the field of pharmaceutical analytical chemistry.

Handbook of Research on Big Data Storage and Visualization Techniques *IGI Global*

The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The *Handbook of Research on Big Data Storage and Visualization Techniques* is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of

topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards professionals, researchers, and students seeking current research and application topics on the subject.

Quantitative Investment Analysis

John Wiley & Sons

Your complete guide to quantitative analysis in the investment industry *Quantitative Investment Analysis, Third Edition* is a newly revised and updated text that presents you with a blend of theory and practice materials to guide you through the use of statistics within the context of finance and investment. With equal focus on theoretical concepts and their practical applications, this approachable resource offers features, such as learning outcome statements, that are targeted at helping you understand, retain, and apply the information you have learned. Throughout the text's chapters, you explore a wide range of topics, such as the time value of money, discounted cash flow applications, common probability distributions, sampling and estimation, hypothesis testing, and correlation and regression. Applying quantitative analysis to the investment process is an important task for investment pros and students. A reference that provides even subject matter treatment, consistent mathematical notation, and continuity in topic coverage will make the learning process easier—and will bolster your success. Explore the materials you need to apply quantitative analysis to finance and investment data—even if you have no previous knowledge of this subject area Access updated content that offers insight into the latest topics relevant to the field Consider a wide range of

subject areas within the text, including chapters on multiple regression, issues in regression analysis, time-series analysis, and portfolio concepts. Leverage supplemental materials, including the companion Workbook and Instructor's Manual, sold separately. *Quantitative Investment Analysis, Third Edition* is a fundamental resource that covers the wide range of quantitative methods you need to know in order to apply quantitative analysis to the investment process.

Quantitative Thin-Layer Chromatography *Springer Science & Business Media*

Thin-layer chromatography (TLC) is widely used particularly for pharmaceutical and food analysis. While there are a number of books on the qualitative identification of chemical substances by TLC, the unique focus here is on quantitative analysis. The authors describe all steps of the analytical procedure, beginning with the basics and equipment for quantitative TLC followed by sample pretreatment and sample application, development and staining, scanning, and finally statistical and chemometric data evaluation and validation. An important feature is the coverage of effect-directed biological detection methods. Chapters are organized in a modular fashion facilitating the easy location of information about individual procedural steps.

CRC Handbook of Basic Tables for Chemical Analysis *CRC Press*

Researchers in chemistry, chemical engineering, pharmaceutical science, forensics, and environmental science make routine use of chemical analysis, but the information these researchers

need is often scattered in different sources and difficult to access. The *CRC Handbook of Basic Tables for Chemical Analysis: Data-Driven Methods and Interpretation, Fourth Edition* is a one-stop reference that presents updated data in a handy format specifically designed for use when reaching a decision point in designing an analysis or interpreting results. This new edition offers expanded coverage of calibration and uncertainty, and continues to include the critical information scientists rely on to perform accurate analysis. Enhancements to the Fourth Edition: Compiles a huge array of useful and important data into a single, convenient source. Explanatory text provides context for data and guidelines on applications. Coalesces information from several different fields. Provides information on the most useful "wet" chemistry methods as well as instrumental techniques, with an expanded discussion of laboratory safety. Contains information of historical importance necessary to interpret the literature and understand current methodology. Unmatched in its coverage of the range of information scientists need in the lab, this resource will be referred to again and again by practitioners who need quick, easy access to the data that forms the basis for experimentation and analysis.

Solutions Manual for Quantitative Chemical Analysis

Evaluating Process Safety in the Chemical Industry *Wiley-AIChE*

Summarizes some of the wisdom accumulated by chemical process industry risk analysis practitioners and safety professionals, providing information on the applicability of quantitative risk analysis (QRA) to the

chemical processing industry. Discusses essentials of QRA, outlines considerations for deciding when to apply QRA, and describes practical situations in which QRA may be used successfully. Overviews the process of setting up an individual QRA, discusses the importance of defining the right problem for analysis, and overviews various classes of QRA techniques. The authors are affiliated with EQE International, Inc. Annotation copyrighted by Book News, Inc., Portland, OR

Through the Deep Waters *WaterBrook*

A past filled with shame can be washed away with a love that conquers all Born to an unloving prostitute in a popular Chicago brothel, timid seventeen-year-old Dinah Hubley was raised amidst the secrets held in every dark, grimy room of her home. Anxious to escape, Dinah pursues her dream of becoming a Harvey Girl, waiting tables along the railroad in an upscale hotel. But when she finds out she isn't old enough, her only option is to accept a job as a chambermaid at the Clifton Hotel in Florence, Kansas. Eager to put everything behind her, Dinah feels more worthless than ever, based on a single horrible decision she made to survive. The Clifton offers a life Dinah has never known, but blinded to the love around her, Dinah remains buried in the shame of her past. When a handsome chicken farmer named Amos Ackerman starts to show interest, Dinah withdraws further, convinced no one could want a sullied woman like her. Despite his self-consciousness about his handicapped leg and her strange behavior, Amos resolves to show Dinah Christ's love. But can she ever accept a gift she so

desperately needs?

Analytical Chemistry and Quantitative Analysis *Pearson College Division*

Analytical Chemistry and Quantitative Analysis presents concepts and procedures in a manner that reflects the practice and applications of these methods in today's analytical laboratories. These methods are illustrated by using current examples from fields that include forensics, environmental analysis, medicine, biotechnology, food science, pharmaceutical science, materials analysis, and basic research. The fundamental principles of laboratory techniques for chemical analysis are introduced, along with issues to consider in the appropriate selection and use of these methods--including the proper use and maintenance of balances, laboratory glassware, and notebooks, as well as mathematical tools for the evaluation and comparison of experimental results. Basic topics in chemical equilibria are reviewed and used to help demonstrate the principles and proper use of classical methods of analysis like gravimetry and titrations. Common instrumental techniques are also introduced, such as spectroscopy, chromatography and electrochemical methods. Sideboxes discuss other methods, including mass spectrometry and NMR spectroscopy, throughout the text.

Atkins' Physical Chemistry 11e *Oxford University Press, USA*

Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume

approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

BIOS Instant Notes in Analytical Chemistry *Taylor & Francis*

Instant Notes in Analytical Chemistry provides students with a thorough comprehension of analytical chemistry and its applications. It supports the learning of principles and practice of analytical procedures and also covers

the analytical techniques commonly used in laboratories today.

Food Analysis Laboratory Manual *Springer Science & Business Media*

This second edition laboratory manual was written to accompany Food Analysis, Fourth Edition, ISBN 978-1-4419-1477-4, by the same author. The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

Guidelines for Consequence Analysis of Chemical Releases *John Wiley & Sons*

This Guidelines book provides technical information on how to conduct a consequence analysis to satisfy your company's needs and the EPA rules. It covers quantifying the size of a release, dispersion of vapor clouds to an endpoint concentration, outcomes for various types of explosions and fires, and the effect of the release on people and structures. Special Details: Includes CD-ROM with example problems worked using Excel and Quattro Pro. For use with Windows 95, 98, and NT.

Undergraduate Instrumental Analysis *CRC Press*

Completely rewritten, revised, and

updated, this Sixth Edition reflects the latest technologies and applications in spectroscopy, mass spectrometry, and chromatography. It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field. Many of

the

Techniques in Organic Chemistry
Macmillan

"Compatible with standard taper miniscale, 14/10 standard taper microscale, Williamson microscale. Supports guided inquiry"--Cover.