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Skoog and West's Fundamentals of Analytical Chemistry - Douglas Arvid Skoog
2013-12-18
This Cengage Technology Edition is the result of

an innovative and collaborative development process. The textbook retains the hallmark approach of this respected text, whilst presenting the content in a print and digital

hybrid that has been tailored to meet the rapidly developing demands of today's lecturers and students. This blended solution offers a streamlined textbook for greater accessibility and convenience, complemented by a bolstered online presence, for a truly multi-faceted learning experience. Skoog and West's Fundamentals of Analytical Chemistry provides a thorough background in the chemical principles that are particularly important to analytical chemistry. Students using this book will develop an appreciation for the difficult task of judging the accuracy and precision of experimental data and to show how these judgements can be sharpened by applying statistical methods to analytical data. The book introduces a broad range of modern and classic techniques that are useful in analytical chemistry; as well as giving students the skills necessary for both obtaining data in the laboratory and solving quantitative analytical problems.

Solutions Manual for Principles of Instrumental

Analysis - Douglas A. Skoog 1985

Introduction to Modern Inorganic Chemistry - Kenneth Malcolm Mackay 1972

Analytical Chemistry - Douglas A. Skoog 2000

Prepare for exams and succeed in your analytical chemistry course with this comprehensive solutions manual! Featuring worked out-solutions to the problems in ANALYTICAL CHEMISTRY: AN INTRODUCTION, 7th Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples.

Quantitative Chemical Analysis - Daniel C. Harris 2010-04-30

QCA is the bestselling textbook of choice for analytical chemistry. It offers a modern portrait of the techniques of chemical analysis, backed by a wealth of real world applications. This edition features new coverage of spectroscopy

and statistics, new pedagogy and enhanced lecturer support.

Electrochemical Methods for Neuroscience - Adrian C. Michael 2006-12-13

Since the first implant of a carbon microelectrode in a rat 35 years ago, there have been substantial advances in the sensitivity, selectivity and temporal resolution of electrochemical techniques. Today, these methods provide neurochemical information that is not accessible by other means. The growing recognition of the versatility of electrochemical techniques indicates a need for a greater understanding of the scientific foundation and use of these powerful tools. *Electrochemical Methods for Neuroscience* provides an updated summary of the current, albeit evolving, state of the art and lays the scientific foundation for incorporating electrochemical techniques into on-going or newly emerging research programs in the neuroscience disciplines. With contributions from pioneers in the field, the text

outlines the applications and benefits of a wide range of electrochemical techniques. It explores the methodology behind the acquisition of neurochemical and neurobiological data through continuous amperometry, fast scan cyclic voltammetry, high-speed chronoamperometry, ion-selective microelectrodes, enzyme based microelectrodes, and in vivo voltammetry with telemetry. The text also introduces emerging concepts in the field such as the correlation of electrochemical recordings with information obtained from patch clamp, electrophysiological, and behavioral techniques. By presenting up-to-date information on the growing collection of electrochemical methods, microsensors, and research techniques, *Electrochemical Methods for Neuroscience* assists seasoned researchers and newcomers to the field in making sound decisions about adopting the most appropriate of these tools for their future research objectives.

Basic Concepts Of Analytical Chemistry - S M Khopkar 1998

Analytical Chemistry Has Made Significant Progress In The Last Two Decades. Several Methods Have Come To The Forefront While Some Classical Methods Have Been Relegated. An Attempt Has Been Made In This Edition To Strike A Balance Between These Two Extremes, By Retaining Most Significant Methods And Incorporating Some Novel Techniques. Thus An Endeavour Has Been Made To Make This Book Up To Date With Recent Methods. The First Part Of This Book Covers The Classical Volumetric As Well As Gravimetric Methods Of Analysis. The Separation Methods Are Prerequisite For Dependable Quantitative Methods Of Analysis. Therefore Not Only Solvent Extraction Separations But Also Chromatographic Methods Such As Adsorption, Partition, Ion- Exchange, Exclusion And Electro Chromatography Have Been Included. To Keep Pace With Modern Developments The Newly Discovered Techniques Such As Ion Chromatography, Super-Critical Fluid Chromatography And

Capillary Electrophoresis Have Been Included. The Next Part Of The Book Encompasses The Well Known Spectroscopic Methods Such As Uv, Visible, Ir, Nmr, And Esr Techniques And Also Atomic Absorption And Plasma Spectroscopy And Molecular Luminescences Methods. Novel Analytical Techniques Such As Auger, Esca And Photo Acoustic Spectroscopy Of Surfaces Are Also Included. The Final Part Of This Book Covers Thermal And Radioanalytical Methods Of Analysis. The Concluding Chapters On Electroanalytical Techniques Include Potentiometry, Conductometry. Coulometry And Voltammetry Inclusive Of All Kinds Of A Polarography. The Theme Of On Line Analysis Is Covered In Automated Methods Of Analysis. To Sustain The Interest Of The Reader Each Chapter Is Provided With Latest References To The Monographs In The Field. Further, To Test The Comprehension Of The Subject Each Chapter Is Provided With Large Number Of

Solved And Unsolved Problems. This Book Should Be Useful To Those Reads Who Have Requisite Knowledge In Chemistry And Are Majoring In Analytical Chemistry. It Is Also Useful To Practising Chemists Whose Sole Aim Is To Keep Abreast With Modern Developments In The Field.

Modern Analytical Chemistry - David Harvey 2000

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.

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Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

Analytical Chemistry - Douglas A. Skoog 1979

Studyguide for Analytical Chemistry - Cram101
Textbook Reviews 2012-02

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included.

Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780030202933

Liquid Chromatography - Mass Spectrometry - Robert E. Ardrey 2003-04-02

First explaining the basic principles of liquid chromatography and mass spectrometry and then discussing the current applications and practical benefits of LC-MS, along with descriptions of the basic instrumentation, this title will prove to be the indispensable reference source for everyone wishing to use this

increasingly important tandem technique. * First book to concentrate on principles of LC-MS * Explains principles of mass spectrometry and chromatography before moving on to LC-MS * Describes instrumental aspects of LC-MS * Discusses current applications of LC-MS and shows benefits of using this technique in practice

Environmental Applications of Instrumental Chemical Analysis - Mahmood Barbooti
2015-04-15

This book is a comprehensive review of the instrumental analytical methods and their use in environmental monitoring site assessment and remediation follow-up operations. The increased concern about environmental issues such as water pollution, air pollution, accumulation of pollutants in food, global climate change, and effective remediation processes necessitate the precise determination of various types of chemicals in environmental samples. In general, all stages of environmental work start with the

evaluation of organic and inorganic environmental samples. This important book furnishes the fundamentals of instrumental chemical analysis methods to various environmental applications and also covers recent developments in instrumental chemical methods. Covering a wide variety of topics in the field, the book: • Presents an introduction to environmental chemistry • Presents the fundamentals of instrumental chemical analysis methods that are used mostly in the environmental work. • Examines instrumental methods of analysis including UV/Vis, FTIR, atomic absorption, induced coupled plasma emission, electrochemical methods like potentiometry, voltametry, coulometry, and chromatographic methods such as GC and HPLC • Presents newly introduced chromatographic methodologies such as ion electrophoresis, and combinations of chromatography with pyrolysis methods are given • Discusses selected methods for the determinations of various pollutants in

water, air, and land Readers will gain a general review of modern instrumental method of chemical analysis that is useful in environmental work and will learn how to select methods for analyzing certain samples. Analytical instrumentation and its underlying principles are presented, along with the types of sample for which each instrument is best suited. Some noninstrumental techniques, such as colorimetric detection tubes for gases and immnosassays, are also discussed.

Drugs, Poisons, and Chemistry, Revised Edition - Suzanne Bell 2019-10-01

Forensic chemists and toxicologists work with drugs and poisons, but they each start with different evidence. Forensic chemists working in a crime lab must determine if the physical evidence they receive is an illegal substance such as marijuana or cocaine. They are also responsible for samples—including fire debris, soil, paint, glass, explosives, and fibers—obtained from suspected arson crimes.

Toxicologists, on the other hand, work with biological evidence such as blood, saliva, urine, and feces, using analytical chemistry to identify chemical traces and unmetabolized drugs. They often work in labs associated with a medical examiner's office or a hospital. *Drugs, Poisons, and Chemistry, Revised Edition* touches on all aspects of forensic chemistry, including how it developed and what it includes today. This useful eBook covers a short history of forensic chemistry, detailing the story of arsenic and those who developed effective tests to detect it. Delving into the tools and techniques used by forensic chemists—ranging from such familiar tools as the microscope to slightly more obscure tools as the use of antibodies to detect toxins—this comprehensive resource provides a thorough examination of these three main areas of forensic chemistry. Chapters include: History and Pioneers Scientific Principles, Instrumentation, and Equipment Toxicology: Drugs and Poisons in the Body Forensic Drug

Analysis Conclusions: The Future of Drugs, Poisons, and Chemistry.

Instrumental Methods of Analysis - Sivasankar, 2012-05-17

Instrumental Methods of Analysis is a textbook designed to introduce various analytical and chemical methods, their underlying principles and applications to the undergraduate engineering students of biotechnology and chemical engineering. This book would also be of interest to students who pursue their B. Sc / M. Sc degree programs in biotechnology and chemistry.

Analytical Chemistry, 7th Edition - Gary D. Christian 2013-09-27

The 7th Edition of Gary Christian's Analytical Chemistry focuses on more in-depth coverage and information about Quantitative Analysis (aka Analytical Chemistry) and related fields. The content builds upon previous editions with more enhanced content that deals with principles and techniques of quantitative analysis with more

examples of analytical techniques drawn from areas such as clinical chemistry, life sciences, air and water pollution, and industrial analyses.

Introduction to Pharmaceutical Analytical Chemistry - Stig Pedersen-Bjergaard 2019-02-11

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 Forensic Analytical Toxicology - AK Jaiswal 2022-03-31

This book is a comprehensive guide to forensic analytical toxicology for trainees in forensic medicine and forensic scientists. The second edition has been fully revised to provide clinicians with the latest developments and research in the field. New chapters covering the latest analytical instruments have been added to this edition. Beginning with guidance on setting up a modern toxicology laboratory, the next sections, with the help of flow charts, explain the procedures for collection, preservation, extraction, and clean up; and screening and colour tests for various poisons. The following

chapters describe numerous major and minor analytical instruments and techniques, and their application in forensic toxicology. The text is further enhanced by clinical images, figures and tables. The previous edition (9789351522249) published in 2014.

Analytical Chemistry and Quantitative

Analysis - David S. Hage 2011

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.

Bioanalytical Chemistry - Andreas Manz
2015-06-04

Interdisciplinary knowledge is becoming increasingly important to the modern scientist. This invaluable textbook covers bioanalytical chemistry (mainly the analysis of proteins and

DNA) and explains everything for the non-biologist. Electrophoresis, mass spectrometry, biosensors, bioassays, DNA and protein sequencing are not necessarily all included in conventional analytical chemistry textbooks. The book describes the basic principles and the applications of instrumental and molecular methods. It is particularly useful to chemistry and engineering students who already have some basic knowledge about analytical chemistry. This revised second edition contains a new chapter on optical spectroscopy, and updated methods and new references throughout. Andreas Manz received the 2015 Inventor Award for "Lifetime Achievement" from the European Patent Office. Petra S Dittrich will be presented with the Heinrich-Emanuel-Merck Award 2015 at EuroAnalysis2015 Conference.

Ewing's Analytical Instrumentation Handbook, Fourth Edition - Nelu Grinberg
2019-02-21

This handbook is a guide for workers in

analytical chemistry who need a starting place for information about a specific instrumental technique. It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique. This edition thoroughly expands and updates the chapters to include concepts, applications, and key references from recent literature. It also contains a new chapter on process analytical technology.

Undergraduate Instrumental Analysis - James W. Robinson 2004-12-02

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

Fundamentals of Analytical Chemistry - Douglas A. Skoog 2013-01-01

Known for its readability and systematic, rigorous approach, this fully updated Ninth Edition of *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 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.

Analytical Chemistry for Technicians, Second Edition - John Kenkel 1994-07-22

The second edition of Analytical Chemistry for Technicians provides the "nuts and bolts" of analytical chemistry and focuses on the practical aspects for training a technician-level laboratory worker. This edition presents new and expanded chapters, innumerable questions and problems, and modified experiments that present a fresh

and challenging approach. Some of the topics that have been expanded include chemical equilibrium, chromatography, Kjeldahl method, and molarity and moles where EDTA and water hardness calculations are concerned. New discussions of the Ag/AgCl and combination pH electrodes have been added, while the discussion of ion-selective electrodes has been expanded. The chapter introducing instrumental analysis and computers now includes discussions of " $y = mx + b$ " and the method of least squares. The book also includes discussions of FTIR, topics of NMR, and mass spectrometry, which are found in the new infrared spectrometry chapter.

Analytical Chemistry - Douglas A. Skoog 2000
This new edition contains updated material on biomedical applications and features, e.g., point of care and immunoassays and the reduction of excess material. It also includes new molecular artwork throughout.

BIOS Instant Notes in Analytical Chemistry -

David Kealey 2004-08-02

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.

Fundamentals of Analytical Chemistry - Douglas Skoog 2013-01-01

Known for its readability and systematic, rigorous approach, this fully updated Ninth Edition of 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 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.

Environmental Health Curricula at Schools of Public Health - John B. Conway 1999

Catalog of Copyright Entries, Third Series -

Library of Congress. Copyright Office 1976

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Principles of Instrumental Analysis - Douglas A. Skoog 2017-01-27

PRINCIPLES OF INSTRUMENTAL ANALYSIS is the standard for courses on the principles and applications of modern analytical instruments. In the 7th edition, authors Skoog, Holler, and Crouch infuse their popular text with updated techniques and several new Instrumental Analysis in Action case studies. Updated

material enhances the book's proven approach, which places an emphasis on the fundamental principles of operation for each type of instrument, its optimal area of application, its sensitivity, its precision, and its limitations. The text also introduces students to elementary analog and digital electronics, computers, and the treatment of analytical data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Instrument Analysis - 2007

History of Analytical Chemistry - Ferenc Szabadváry 2016-01-22

History of Analytical Chemistry is a systematic account of the historical development of analytical chemistry spanning about 4,000 years. Many scientists who have helped to develop the methods of analytical chemistry are mentioned. Various methods of analysis are discussed, including electrogravimetry, optical methods,

electrometric analysis, radiochemical analysis, and chromatography. This volume is comprised of 14 chapters and begins with an overview of analytical chemistry in ancient Greece, the origin of chemistry, and the earliest knowledge of analysis. The next chapter focuses on analytical chemistry during the Middle Ages, with emphasis on alchemy. Analytical knowledge during the period of iatrochemistry and the development of analytical chemistry during the phlogiston period are then examined. Subsequent chapters deal with the development of the fundamental laws of chemistry, including the principle of the indestructibility of matter; analytical chemistry during the period of Berzelius; and developments in qualitative and gravimetric analysis. Elementary organic analysis is also considered, along with the development of the theory of analytical chemistry. This book will be helpful to chemists as well as students and researchers in the field of analytical chemistry.

Introduction to Modern Liquid Chromatography
- Lloyd R. Snyder 2011-09-20

The latest edition of the authoritative reference to HPLC High-performance liquid chromatography (HPLC) is today the leading technique for chemical analysis and related applications, with an ability to separate, analyze, and/or purify virtually any sample. Snyder and Kirkland's Introduction to Modern Liquid Chromatography has long represented the premier reference to HPLC. This Third Edition, with John Dolan as added coauthor, addresses important improvements in columns and equipment, as well as major advances in our understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the

reader to HPLC, its use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column—the "heart" of the HPLC system Reversed-phase separation, normal-phase chromatography, gradient elution, two-dimensional separation, and other techniques Computer simulation, qualitative and quantitative analysis, and method validation and quality control The separation of large molecules, including both biological and synthetic polymers Chiral separations, preparative separations, and sample preparation Systematic development of HPLC separations—new to this edition Troubleshooting tricks, techniques, and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users, from novices to experts, Introduction to Modern Liquid Chromatography, Third Edition offers the

most up-to-date, comprehensive, and accessible survey of HPLC methods and applications available.

National Library of Medicine Current

Catalog - National Library of Medicine (U.S.)
1971

First multi-year cumulation covers six years:
1965-70.

Chemical Analysis - Francis Rouessac
2013-05-06

Completely revised and updated, Chemical Analysis: Second Edition is an essential introduction to a wide range of analytical techniques and instruments. Assuming little in the way of prior knowledge, this text carefully guides the reader through the more widely used and important techniques, whilst avoiding excessive technical detail. Provides a thorough introduction to a wide range of the most important and widely used instrumental techniques Maintains a careful balance between depth and breadth of coverage Includes

examples, problems and their solutions Includes coverage of latest developments including supercritical fluid chromatography and capillary electrophoresis

Quality Systems and Controls for Pharmaceuticals - Dipak Kumar Sarker
2008-07-31

Quality Systems and Control for Pharmaceuticals is an accessible overview of the highly-regulated area of pharmaceutical manufacture, the production of biomedical materials, and biomedical devices. Introducing the subject in a clear and logical manner it enables the reader to grasp the key concepts of the multidisciplinary area of control science and specifically quality control using industrial and theoretical models. Taking a multidisciplinary approach to the subject the reader is guided through key topics such as product safety which takes into account aspects of analytical science, statistics, microbiology, biotechnology, engineering, business practice and optimizing models, the law

and safeguarding public health, innovation and inventiveness and contemporary best practice. The author has both industry and academic experience and many 'best practice' examples are included throughout the text based on his own industry experience and current practicing industrial pharmacists. This is an invaluable reference for all students of pharmacy who may have little or no familiarity with industrial practice and for those studying BSc chemistry, biomedical sciences, process analytical chemistry and MSc in Industrial Practice.

Introduction to Analytical Chemistry - Douglas A. Skoog 2011

Student Solutions Manual for Skoog/West/Holler/Crouch's Fundamentals of Analytical Chemistry, 9th - Douglas A. Skoog 2013-01-09

Master problem-solving using this manual's worked-out solutions for all the starred problems in the text. Important Notice: Media content

referenced within the product description or the product text may not be available in the ebook version.

Principles of Instrumental Analysis - Douglas A. Skoog 2017-01-27

PRINCIPLES OF INSTRUMENTAL ANALYSIS is the standard for courses on the principles and applications of modern analytical instruments. In the 7th edition, authors Skoog, Holler, and Crouch infuse their popular text with updated techniques and several new Instrumental Analysis in Action case studies. Updated material enhances the book's proven approach,

which places an emphasis on the fundamental principles of operation for each type of instrument, its optimal area of application, its sensitivity, its precision, and its limitations. The text also introduces students to elementary analog and digital electronics, computers, and the treatment of analytical data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mathcad Applications for Analytical Chemistry - F. James Holler 1994