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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.

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1. Introduction 1; 2. Errors in chemical analyses 11; 3. Random errors in analyses 21; 4. Application of statistics to data treatment and evaluation 47; 5. Gravimetric methods of analysis 71; 6. Titrimetric methods of analysis 100; 7. Aqueous-solution chemistry 122; 8. Effects of electrolytes on ionic equilibria 148; 9. Application of equilibrium calculations to complex systems 159; 10. Theory of neutralization titrations 189; 11. Titration curves for complex acid-base systems 224; 12. Applications of neutralization titrations 248; 13. Precipitation titrimetry 266; 14. Complex-formation titrations 278; 15. An introduction to electrochemistry 303; 16. Applications of standard electrode potentials 330; 17. Applications of oxidation-reduction titrations 360; 18. Theory of potentiometry 386; 19. Applications of potentiometry 412; 20. Electrogravimetric and coulometric methods 431; 21. Voltammetry 460; 22. An introduction to spectrochemical methods 497; 23. Instruments for optical spectrometry 527; 24. Molecular absorption spectroscopy 557; 25. Molecular fluorescence spectroscopy 601; 26. Atomic spectroscopy based on ultraviolet and visible radiation 611; 27. Kinetic methods of analysis 637; 28. An introduction to chromatographic methods 660; 29. Gas-liquid cromatography 686; 30.

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High-performance liquid chromatography 701; 31. The analysis of ral samples 725; 32. Preparing samples for analysis 736; 33. Decomposing and dissolving the sample 749; 34. Eliminating interferences 760; 35. The chemicals, apparatus, and unit operations of analytical chemistry 778; 36. Selected methods of analysis 812.

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.

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.

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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.

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.

The analytical toxicologist may be required to detect, identify, and in many cases measure a wide variety of compounds in samples from almost any part of the body or in related materials such as residues in syringes or in soil. This book gives principles and practical information on the analysis of drugs and poisons in biological specimens, particularly clinical and forensic specimens. After providing some background information the book covers aspects of sample collection, transport, storage and disposal, and sample preparation. Analytical techniques - colour tests and spectrophotometry, chromatography and electrophoresis, mass spectrometry, and immunoassay ? are covered in depth, and a chapter

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is devoted to the analysis of trace elements and toxic metals. General aspects of method implementation/validation and laboratory operation are detailed, as is the role of the toxicology laboratory in validating and monitoring the performance of point of care testing (POCT) devices. The book concludes with reviews of xenobiotic absorption, distribution and metabolism, pharmacokinetics, and general aspects of the interpretation of analytical toxicology results. A clearly written, practical, integrated approach to the basics of analytical toxicology. Focuses on analytical, statistical and pharmacokinetic principles rather than detailed applications. Assumes only a basic knowledge of analytical chemistry. An accompanying website provides additional material and links to related sites. Written by an experienced team of authors, Fundamentals of Analytical Toxicology is an invaluable resource for those starting out in a career in analytical toxicology across a wide range of disciplines including clinical and forensic science, food safety, and pharmaceutical development. Praise from the reviews: ?This is an ambitious effort to describe in detail the many and varied aspects of the science of toxicological analysis. The 17 chapters cover every foreseeable aspect, from specimen collection through analytical techniques and quality control to pharmacological principles and interpretation of results. The authors bring together a great deal of

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experience in the field and have succeeded admirably in achieving their goal: "to give principles and practical information on the analysis of drugs, poisons and other relevant analytes in biological specimens...". The book is very readable and quite up-to-date, and contains many illustrative figures, charts and tables. Both the student and the practicing professional would do well to study this material carefully, as there is something here for every conceivable level of interest. Review from Randall Baselt "This text comes highly recommended for any analytical toxicology trainee." The Bulletin of the Royal College of Pathologists "Overall, this book provides a comprehensive, thorough, clear, up to date and practical treatment of analytical toxicology at a high standard. Understanding of the text is enhanced by the use of many illustrations. Specifications, guidelines, and methods are highlighted in grey background "Boxes". The many and up to date literature references in each chapter demonstrate the authors' thorough work and permit easy access to deeper information. Therefore this book can be highly recommended as a valuable source of knowledge in analytical toxicology both as an introduction and for the advanced reader." GTFCh Bulletin "Toxichem + Krimtech", May 2008 (translated, original review in German) "Many toxicologists will add this important reference to their libraries because it competently fills a need ..."

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