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for instructors who wish to focus on practical industrial or research chemistry includes case studies applications boxes and spreadsheet applications

the 10th edition of quantitative chemical analysis continues to set the standard for learning analytical chemistry with distinguished writing the most up to date content and now the acclaimed achieve program supporting exceptional problem solving practice new author charles lucy joins dan harris infusing additional subject expertise and classroom experience into the 10th edition macmillan s new online learning platform achieve is the culmination of years of development work put toward creating the most powerful online learning tool for chemistry students achieve includes an interactive e book as well as our renowned assessments students will be able to focus their study with adaptive quizzing and gain a better understanding of what is happening at the atomic or molecular level through instrumentation technique videos achieve features a flexible suite of resources to support learning core concepts visualization problem solving and assessment this powerful platform houses all student and instructor resources you can assign what you want or download resources as you need powerful analytics and quick insights in achieve pair with exceptional content to provide an unrivaled learning and teaching experience

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combining coverage of all major analytical topics with effective problem solving methods exploring chemical analysis provides an ideal introduction to analytical chemistry

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exploring chemical analysis teaches students how to understand analytical results and how to use quantitative manipulations preparing them for the problems they will encounter

a unique guide to the application and theory of photothermal spectroscopy this book debunks the myth that photothermal spectroscopy is too complicated for practical application to chemical analysis and demonstrates the advantages this technique has over conventional spectroscopy in facilitating extremely sensitive measurements of optical absorption in homogeneous media the book covers the subject from the ground up lists all practical considerations needed to obtain accurate results and provides a working knowledge of the various methods in use including photo acoustics and photopyroelectric techniques bringing together a wealth of information that has been scattered throughout the professional literature photothermal spectroscopy methods for chemical analysis covers methods and information that should be known to every analytical chemist including descriptions of photothermal spectroscopy using a consistent mathematical language helpful

examples from the literature of analytical applications and current research illustrations of all important points consistent equations and numerous original figures a discussion of laser technology and how it is used to obtain accurate results from extremely small samples of a few molecules everything spectroscopists need to know to construct their own apparatus and use it to conduct successful experiments tips on how to interpret experimental results effectively when using nonlinear processes and in many other situations in photothermal spectroscopy considerations for further study of heterogeneous sample analysis unified nomenclature of the patchwork of terms used by researchers in analytical and physical chemistry physics and optical engineering equations that are derived with the aid of a symbolic language processor to ensure correct results photothermal spectroscopy has seen major advances since the advent of laser technology twenty five years ago it is now possible using a laser's coherent and powerful output to obtain extremely sensitive measurements of optical absorption that exceed those of mass spectroscopy by two or three times and produce accurate results from only a few molecules focusing on samples in homogeneous media this book provides a unique guide incorporating theory and application to all available photothermal spectroscopy techniques for chemical and material analysis it uses a systematic approach in its comprehensive treatment of the theory and covers all the necessary background material from laser optics to fluid dynamics this accessible text describes the various processes used to detect thermal perturbation of a sample ranging from optical excitation to nonlinear processes and covers all optical principles necessary to understand photothermal spectroscopy when dealing with hydrodynamic equations that govern energy transfer in the sample matrix it provides an original impulse response approach in addition the book explains how to construct the apparatus one needs to conduct successful photothermal experiments since commercial equipment is not available as in conventional spectrophotometry throughout this book draws on information from a wide range of fields including analytical spectroscopy measurement physics physical optics and chemical dynamics providing clear explanations at every turn the author demonstrates a complete understanding of the theory and applications as a firm basis for the correct interpretation of experimental results for analytical chemists as well as for students at the graduate level photothermal spectroscopy methods for chemical analysis is an unmatched resource that develops a consistent mathematical basis for signal description consolidates previous theories and provides invaluable insight into laser technology

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