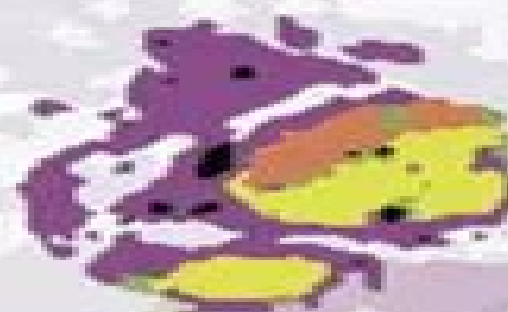


SPECTROCHEMICAL ANALYSIS USING INFRARED MULTICHANNEL DETECTORS



Edited by
Rohit Bhargava and Ira W. Levin



Spectrochemical Analysis Using Infrared Multichannel Detectors

V.P. Gupta



Spectrochemical Analysis Using Infrared Multichannel Detectors:

Spectrochemical Analysis Using Infrared Multichannel Detectors Rohit Bhargava, Ira W. Levin, 2008-04-15 This book provides a state of the art review of a major recent technology which has now reached a level of maturity The editors have pioneered the development and application of these techniques and technologies and the chapter authors are leading practitioners in their subject areas The volume encompasses methods and instrumentation across a range of applications It is directed at researchers and professionals in vibrational spectroscopy analytical chemistry materials science biomedicine food science and combinatorial chemistry

Molecular and Laser Spectroscopy V.P. Gupta, 2017-09-18 *Molecular and Laser Spectroscopy Advances and Applications* provides students and researchers with an up to date understanding of the fast developing area of molecular and laser spectroscopy Editor V P Gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach first covering basic principles needed to understand each cutting edge technique and application This book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field The book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence biomedical research environmental monitoring forensic investigations food and agriculture and chemical pharmaceutical and petrochemical processes Researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work Covers several areas of spectroscopy research in a single volume saving researchers time Includes exhaustive lists of research articles reviews and books at the end of each chapter to point readers in the right direction for further learning Features illustrative examples of the varied applications Serves as a practical guide to those interested in using molecular and laser spectroscopy tools in their research and field applications

Handbook of Food Analysis - Two Volume Set Leo M.L. Nollet, Fidel Toldra, 2015-06-10 Updated to reflect changes in the industry during the last ten years The Handbook of Food Analysis Third Edition covers the new analysis systems optimization of existing techniques and automation and miniaturization methods Under the editorial guidance of food science pioneer Leo M L Nollet and new editor Fidel Toldra the chapters take an in

Infrared and Raman Spectroscopic Imaging Reiner Salzer, Heinz W. Siesler, 2014-08-07 This second edition of the successful ready reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements as well as the significant expansion of this rapidly developing field For example the combination of IR imaging with AFM has enhanced the achievable lateral resolution by an order of magnitude down to a few hundred nanometers thus launching a multiplicity of new applications in material science Furthermore Raman and IR spectroscopic imaging have become key technologies for the life sciences and today contribute tremendously to a better and more detailed understanding of numerous biological and medical research topics The topical structure of this new edition is now subdivided into four parts The first treats the fundamentals of the instrumentation for

infrared and Raman imaging and mapping and an overview on the chemometric tools for image analysis The second part describes a wide variety of applications ranging from biomedical via food agriculture and plants to polymers and pharmaceuticals This is followed by a description of imaging techniques operating beyond the diffraction limit while the final part covers special methodical developments and their utility in specific fields With its many valuable practical tips this is a must have overview for researchers in academic and industrial laboratories wishing to obtain reliable results with this method

Infrared Spectroscopy for Environmental Monitoring, 2022-08-09 Comprehensive Analytical Chemistry Volume 84 the latest release in the Comprehensive Analytical Chemistry series highlights new advances in the field with this new volume presenting interesting chapters on the Current status of environmental monitoring Physical principles of infrared Chemical principles of infrared Instrumentation and hardware Data analysis Sampling Applications in water Application in soil and sediments Applications in ecology of animals and plants Applications in air monitoring Applications in contamination Applications in marine environments Advantages and pitfalls and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Damia Barcelo series Updated release includes the latest information on the Daniel Cozzolino

Biomedical Imaging Reiner Salzer, 2012-04-11 This book presents and describes imaging technologies that can be used to study chemical processes and structural interactions in dynamic systems principally in biomedical systems The imaging technologies largely biomedical imaging technologies such as MRT Fluorescence mapping raman mapping nanoESCA and CARS microscopy have been selected according to their application range and to the chemical information content of their data These technologies allow for the analysis and evaluation of delicate biological samples which must not be disturbed during the process Ultimately this may mean fewer animal lab tests and clinical trials

Fundamentals of Fourier Transform Infrared Spectroscopy Brian C. Smith, 2011-03-09 Reflecting the myriad changes and advancements in the technologies involved in FTIR particularly the development of diamond ATRs this second edition of Fundamentals of Fourier Transform Infrared Spectroscopy has been extensively rewritten and expanded to include new topics and figures as well as updates of existing chapters Designed for those new

Modern Techniques for Food Authentication Da-Wen Sun, 2018-07-25 Modern Techniques for Food Authentication Second Edition presents a comprehensive review of the novel techniques available to authenticate food products including various spectroscopic technologies methods based on isotopic analysis and chromatography and other techniques based on DNA enzymatic analysis and electrophoresis This new edition pinpoints research and development trends for those working in research development and operations in the food industry giving them readily accessible information on modern food authentication techniques to ensure a safe and authentic food supply It will also serve as an essential reference source to undergraduate and postgraduate students and for researchers in universities and research institutions Presents emerging imaging techniques that have proven to be powerful non destructive tools for food authentication Includes applications of

hyperspectral imaging to reflect the current trend of developments in food imaging technology for each topic area Provides pixel level visualization techniques needed for fast and effective food sample testing Contains two new chapters on Imaging Spectroscopic Techniques *Techniques and Applications of Hyperspectral Image Analysis* Hans Grahn,Paul Geladi,2007-09-27 *Techniques and Applications of Hyperspectral Image Analysis* gives an introduction to the field of image analysis using hyperspectral techniques and includes definitions and instrument descriptions Other imaging topics that are covered are segmentation regression and classification The book discusses how high quality images of large data files can be structured and archived Imaging techniques also demand accurate calibration and are covered in sections about multivariate calibration techniques The book explains the most important instruments for hyperspectral imaging in more technical detail A number of applications from medical and chemical imaging are presented and there is an emphasis on data analysis including modeling data visualization model testing and statistical interpretation *Biophysico-Chemical Processes of Anthropogenic Organic Compounds in Environmental Systems* Baoshan Xing,Nicola Senesi,Pan Ming Huang,2011-05-16 In contrast to the classical books which largely focus on separate individual physicochemical and biological aspects this book aims to integrate the frontiers of knowledge on the fundamentals and the impact of physicochemical and biological interactions and processes of AOCs in soil sediment water and air The specific objectives of this book are to address 1 fundamental biophysico chemical processes of AOCs in the environment 2 occurrence and distribution of AOCs in air water and soil and their global cycling 3 the state of the art analytical techniques of AOCs and 4 restoration of natural environments contaminated by AOCs The book also identifies the gaps in knowledge on the subject matter and as such provides future directions to stimulate scientific research to advance the chemical science on biophysico chemical interfacial reactions in natural habitats By virtue of complex nature of the interactions of AOCs with different environmental components and matrixes no single available technique and instrument is satisfactory yet for determining their fate transport availability and risk in the environment In order to fully understand the biophysico chemical interactions and processes of AOCs in the environment it is critical to know chemical physical and biological properties of AOCs and their analytical techniques The book is unique because of its multidisciplinary approach as it provides a comprehensive and integrated coverage of biophysico chemical reactions and processes of AOCs in various environments associated analytical techniques and restoration of natural environments contaminated by AOCs

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