

Vibrational Spectroscopy Applications in Biomedical, Pharmaceutical and Food Sciences



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Applications Of Vibrational Spectroscopy In Food Science

Fidel Toldra

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Instrumentation and fundamental applications Eunice C. Y. Li-Chan, 2010 The book will bring several disparate aspects of food science and analysis together in one place The book will start with chapters on sampling techniques and recent instrumentation for food analysis Descriptions of how vibrational spectroscopy can be used to study and measure changes occurring during cooking processing or storage will follow Finally a dozen or so case studies will be used to illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs The book will be of benefit both to readers who have not previously considered the potential use of these techniques in the study and quality control of food systems as well as those who have had some experience but perhaps in the context of non food biomaterials or only a specific food commodity group or a specific technique MIR NIR or Raman spectroscopy Chemical Analysis of Food: Techniques and Applications Yolanda Picó, 2012-07-18 The book contains twenty three chapters written by experts on the subject is structured in two parts the first one describes the role of the latest developments in analytical and bioanalytical techniques and the second one deals with the most innovative applications and issues in food analysis The two first introductory chapters about sampling technique from basic one to the most recent advances which is still a food challenge because is responsible of the quality and assurance of the analysis and on data analysis and chemometrics are followed by a review of the most recently applied techniques in process on line control and in laboratories for the analysis of major or minor compounds of food These techniques ranged from the non invasive and non destructive ones such as infrared spectroscopy magnetic resonance and ultrasounds to emerging areas as nanotechnology biosensors and electronic noses and tongues including

those already well established in food analysis such as chromatographic and electrophoretic techniques These chapters also include two important tools for solving problems in chemical and biological analysis such as mass spectrometry and molecular based techniques Provided by publisher *Spectroscopic Methods in Food Analysis* Adriana S. Franca, Leo M.L. Nollet, 2017-12-14 Given the inherent complexity of food products most instrumental techniques employed for quality and authenticity evaluation e.g. chromatographic methods are time demanding expensive and involve a considerable amount of manual labor Therefore there has been an increasing interest in simpler faster and reliable analytical methods for assessing food quality attributes *Spectroscopic Methods in Food Analysis* presents the basic concepts of spectroscopic methods together with a discussion on the most important applications in food analysis The determination of product quality and authenticity and the detection of adulteration are major issues in the food industry causing concern among consumers and special attention among food manufacturers As such this book explains why spectroscopic methods have been extensively employed to the analysis of food products as they often require minimal or no sample preparation provide rapid and on line analysis and have the potential to run multiple tests on a single sample i.e. non destructive This book consists of concepts related to food quality and authenticity that are quite broad given the different demands of the manufacturer the consumer the surveillance and the legislative bodies that ultimately provide healthy and safe products *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 *Process Analytical Technology for the Food Industry* Colm P. O'Donnell, Colette Fagan, P.J. Cullen, 2014-11-03 The Process Analytical Technology (PAT) initiative aims to move from a paradigm of testing quality in to building quality in by design It can be defined as the optimal application of process analytical technologies feedback process control strategies information management tools and or product process optimization strategies Recently there have been significant advances in process sensors and in model based monitoring and control methodologies leading to enormous opportunities for improved performance of food manufacturing processes and for the quality of food products with the adoption of PAT Improvements in process efficiency reduced product variability enhanced traceability process understanding and decreased risk of contamination are some of the benefits arising from the introduction of a PAT strategy in the food industry *Process Analytical Technology for the Food Industry* reviews established and emerging PAT tools with potential application within the food processing industry The book will also serve as a reference for industry researchers educators and students by providing a comprehensive insight into the objectives challenges and benefits of adopting a Process Analytical Technology strategy in the food industry *Reactions and Mechanisms in Thermal Analysis of Advanced Materials* Atul Tiwari, Baldev Raj, 2015-08-06 Strong bonds form stronger materials For this reason the investigation on

thermal degradation of materials is a significantly important area in research and development activities. The analysis of thermal stability can be used to assess the behavior of materials in the aggressive environmental conditions which in turn provides valuable information about the service life span of the material. Unlike other books published so far that have focused on either the fundamentals of thermal analysis or the degradation pattern of the materials, this book is specifically on the mechanism of degradation of materials. The mechanism of rupturing of chemical bonds as a result of exposure to high temperature environment is difficult to study and resulting mechanistic pathway hard to establish. Limited information is available on this subject in the published literatures and difficult to excavate. Chapters in this book are contributed by the experts working on thermal degradation and analysis of the wide variety of advanced and traditional materials. Each chapter discusses the material, its possible application, behavior of chemical entities when exposed to high temperature environment and mode and the mechanistic route of its decomposition. Such information is crucial while selecting the chemical ingredients during the synthesis or development of new materials technology.

Advances in Food and Nutrition Research Fidel Toldra, 2021-07-24. Advances in Food and Nutrition Research Volume 97 provides interesting chapters written by an international board of authors. The topics covered in this book include the problematics of bacteriophages in dairy plants and methods for their monitorization and control, the obtention of antioxidant and antimicrobial compounds from sustainable sources and their application in meat and seafood products, the challenges and opportunities for vibrational spectroscopy to measure composition and functional properties of foods, the physiological activity of bioactive peptides obtained from meat and meat by products, the use of plant and marine based polysaccharides for nano encapsulation and their applications in food industry, the effects of early life stress on eating behavior and metabolism considering different factors that control appetite, the nutritional aspects of seafood and its health benefits, the use of *Colocasia esculenta* L. Schott and *Xanthosoma sagittifolium* L. Schott powder as a valid option for the nutritional and technological improvement of food products and much more. The series provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits and other functional compounds of relevance in foods as well as up to date information on food science including raw materials, production, processing, distribution and consumption. Contains contributions that have been carefully selected based on their vast experience and expertise on the subject. Includes updated in depth and critical discussions of available information giving the reader a unique opportunity to learn. Encompasses a broad view of the topics at hand.

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