

Shyam N. Jha Editor

Nondestructive Evaluation of Food Quality

Theory and Practice



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Nondestructive Evaluation Of Food Quality Theory And Practice

Shyam N. Jha



Nondestructive Evaluation Of Food Quality Theory And Practice:

Nondestructive Evaluation of Food Quality Shyam N. Jha, 2010-11-30 Numerous works on non destructive testing of food quality have been reported in the literature Techniques such as Near InfraRed NIR spectroscopy color and visual spectroscopy electronic nose and tongue computer vision image analysis ultrasound x ray CT and magnetic resonance imaging are some of the most applied for that purpose and are described in this book Aspects such as theory basics of the techniques practical applications sampling experimentation data analysis for evaluation of quality attributes of food and some recent works reported in literature are presented and discussed This book is particularly interesting for new researchers in food quality and serves as an updated state of the art report for those already familiar with the field

Nondestructive Evaluation of Food Quality Shyam N. Jha, 2011-07-15 Numerous works on non destructive testing of food quality have been reported in the literature Techniques such as Near InfraRed NIR spectroscopy color and visual spectroscopy electronic nose and tongue computer vision image analysis ultrasound x ray CT and magnetic resonance imaging are some of the most applied for that purpose and are described in this book Aspects such as theory basics of the techniques practical applications sampling experimentation data analysis for evaluation of quality attributes of food and some recent works reported in literature are presented and discussed This book is particularly interesting for new researchers in food quality and serves as an updated state of the art report for those already familiar with the field

Rapid Detection of Food Adulterants and Contaminants Shyam Narayan Jha, 2015-12-23 Rapid Detection of Food Adulterants and Contaminants Theory and Practice contains solid information on common adulterants and contaminants in various foods guidelines for different standards permissible limits prescribed by food regulatory authorities and related detection techniques This is an essential reference for anyone interested in progressive research on detection methods for food safety especially researchers engaged in developing fast reliable and often nondestructive methods for the evaluation of food safety Reviews the most common detection methods of food adulterants and contaminants Includes supporting theory behind the latest techniques Presents case studies to better understand practical applications and resources for further research Addresses the safety standards of a variety of governments and serves as a reference for why government procedures are put in place

Advances in Postharvest Technologies of Vegetable Crops Bijendra Singh, Sudhir Singh, 2018-05-24 This book presents a selection of innovative postharvest management practices for vegetables It covers technologies in harvesting handling and storage of vegetables including strategies for low temperature storage of vegetables active and smart packaging of vegetables edible coatings application of nanotechnology in postharvest technology of vegetable crops and more It considers most of the important areas of vegetable processing while maintaining nutritional quality and addressing safety issues Fruits and vegetables are important sources of nutrients such as vitamins minerals and bioactive compounds which provide many health benefits However due to poor postharvest management such as non availability of cold chain management and low cost

processing facilities large quantities of vegetables perish before they reach the consumer Furthermore higher temperatures in some regions also contribute to an increased level of postharvest losses With chapters written by experts in the postharvest handling of vegetable this volume addresses these challenges It is devoted to presenting both new and innovative technologies as well as advancements in traditional technologies Non-invasive and Non-destructive Methods for Food Integrity Ana María Jiménez-Carvelo,Alejandra Arroyo-Cerezo,Luis Cuadros-Rodríguez,2024-12-16 There is an increasing need for the food industry to provide information to ensure quality requirements and prevent the food fraud applying in situ and on line technologies for full process control along the food chain In today s information age consumers want to be able to have as much information as possible about products quickly and efficiently Therefore the rapid detection of indicators that determine food quality and safety risks helps to ensure an effective and comprehensive food sovereignty system For this purpose the most powerful and commonly used analytical techniques are liquid or gas chromatography both coupled to different detection systems The use of these analytical techniques involves long analysis times and prior procedures of fitness for measuring such as sample pre treatment in which the use of reagents and chemical solvents that may be hazardous or harmful to the environment is common These facts highlight the need for the development of new analytical methods that offer the possibility of rapid non invasive on site environmentally friendly analyses that can be carried out along the entire production chain In addition recent technological developments and advances in data mining and machine learning offer the opportunity to introduce changes that could transform the role of food integrity Non invasive and Non destructive Methods for Food Integrity is dedicated to describing the fundamentals and applications of existing analytical technologies and the current state of these techniques at industrial level The text utilizes reported studies and applications differentiating by particular food and beverage groups in order to provide a comprehensive and detailed overview of the current state of the art of non invasive non destructive analytical techniques for food quality and integrity For each technique covered an introduction is included and thechemical information obtained and why this technology is useful for food analysis Information on the instrumentation available for the application of each technique in food is also provided as well as information on data processing with reference to the treatment of the signal obtained and the use of chemometrics Applications published in scientific literature are detailed for different categories of similar foods based on the techniques that are already used for the routine control of food integrity This book provides guidance for potential users in the food industries and quality control laboratories for choosing which technology to implement based on the type of product and the results to be obtained

Nondestructive Testing of Food Quality Joseph Irudayaraj,Christoph Reh,2008-06-02 The expert contributors to Nondestructive Testing of Food Quality clearly explain present industry advances and how to turn available instrumentation into valuable assets Readers learn how the competencies of product knowledge process understanding instrumentation principles of sensing process control and analytical methodology are required to turn an application into success The broad

based coverage of topics addresses the most dominant sensor technologies keeping in mind the research initiatives advancing these technologies not only in food but also in the pharmaceutical sectors Coverage includes ultrasound near infrared spectroscopy mid infrared spectroscopy Raman spectroscopy hyperspectral imaging systems magnetic resonance imaging electronic nose z nose biosensors microwave absorption and nanoparticles and colloids as sensors

Knowledge and Systems Engineering Van Nam Huynh,Thierry Denoeux,Dang Hung Tran,Anh Cuong Le,Son Bao Pham,2013-10-01 The field of Knowledge and Systems Engineering KSE has experienced rapid development and inspired many applications in the world of information technology during the last decade The KSE conference aims at providing an open international forum for presentation discussion and exchange of the latest advances and challenges in research of the field These proceedings contain papers presented at the Fifth International Conference on Knowledge and Systems Engineering KSE 2013 which was held in Hanoi Vietnam during 17 19 October 2013 Besides the main track of contributed papers which are compiled into the first volume the conference also featured several special sessions focusing on specific topics of interest as well as included one workshop of which the papers form the second volume of these proceedings The book gathers a total of 68 papers describing recent advances and development on various topics including knowledge discovery and data mining natural language processing expert systems intelligent decision making computational biology computational modeling optimization algorithms and industrial applications

AI Applications in Food Processing and Packaging Ashutosh Kumar Shukla,2025-06-27 Artificial intelligence AI is a branch of computer science which uses data to create models These models learn from data and are used to make predictions AI tools are being developed to deal with the complexity and variety of data in the food industry This edited volume highlights the ways in which AI can be applied to optimization and automation in quality control processing and packaging of food products It covers a wide range of food products including oils and fats milk fish and fishery products Filling the gap between literature covering conventional food processing and packaging and current research on AI linked to these areas initial chapters highlight AI applications including the internet of things IoT and big data applications in the food industry Then coverage details the intelligent integration of many technologies for different applications in the food industry for example non destructive food quality assessment using digital images assisted by chemometrics simulations to detect the existence of foreign objects in milk packaging using ultrasonic tomography and AI assisted 3D food printing New advanced sensing technologies including electronic noses and tongues are discussed in detail emphasizing their role in ensuring food product quality and safety

Next-Generation Nanobiosensor Devices for Point-Of-Care Diagnostics Gorachand Dutta,2022-12-02 This book reviews the potential of next generation point of care diagnosis in healthcare It also discusses the printed chip based assay Lab on a Chip Lab on a PCB for rapid inexpensive biomarkers detection The book presents the development of sensory systems based on the use of nanomaterials It examines different biosensors for medical diagnosis using surface modification strategies of transducers It presents electrochemical

concepts based on different nanobiomaterials and nanocomposites for cancer theranostics. Notably, the book examines the recent advances in wearable cost-effective hemodynamic sensors to detect diseases at an early stage. It further explores the combination of redox cycling and electrochemical detection to develop ultrasensitive and reproducible biosensors for point-of-care testing. Finally, the book summarizes the significant challenges in the point-of-care diagnostics and its future opportunities in healthcare.

Spectroscopy of Tropical Fruits: Sala Mango and B10 Carambola (Penerbit USM)

Ommi Kalsom Mardziah Yahaya, Ahmad Fairuz Omar, 2017. This research work plays an important role in transforming current conventional methodology in fruit quality definition and evaluation into scientific and technological objectives and implementation. Conventional definition in evaluating fruit quality is based on its physical attributes such as colour, size, shape, and percentage of physical defects. While the conventional practice is dominating fruit industry, the efforts to transform this conventional definition towards a more valuable and scientific interpretation have been put forth by various research groups worldwide. For every presented variable, evaluating or quantifying methodologies will be introduced and promoted by scientific societies. Similarly to fruit quality evaluation, several methodologies have been introduced based on its physical or intrinsic definition. Despite many efforts that have been carried out in this research area, gaps still exist for the new research to take place, especially in the area related to development of low-cost measuring system, miniature and mobile system, online monitoring system with rapid time of measurement and high accuracy and precision measurement algorithm. Hence, this book is written particularly to explore the ability of visible and near-infrared spectroscopy in quantitatively determining fruit intrinsic qualities with in-depth case studies on two prominent tropical fruits, Sala mango and B10 carambola.

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