

Shyam N. Jha *Editor*

Nondestructive Evaluation of Food Quality

Theory and Practice



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Nondestructive Evaluation Of Food Quality Theory And Practice

Pranjal Chandra, Parmjit S. Panesar



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

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 the chemical 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

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

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

Bio-Imaging Rajagopal Vadivambal, Digvir S. Jayas, 2015-08-27 Highlights the Emergence of Image Processing in Food and Agriculture In addition to uses specifically related to health and other industries biological imaging is now being used for a variety of applications in food and agriculture Bio Imaging Principles Techniques and Applications fully details and outlines the processes of bio imaging applica *Technological Interventions in the Processing of Fruits and Vegetables* Rachna Sehrawat, Khursheed A. Khan, Megh R. Goyal, Prodyut K. Paul, 2018-04-17 Technological Interventions in Processing of Fruits and Vegetables presents a wide selection of the latest concepts in the fast changing field of processing of fruits and vegetables FAV It provides key information on many new and different techniques used for processing of fruits and vegetables while also exploring the pros and cons of the various methods There is an urgent need to explore and investigate waste in the processing of fruits and vegetables and how different processing technologies can be used most effectively This volume in short conveys the key concepts and role of different technology in processing of fruits and vegetables keeping mind the special processing requirements of fruits and vegetables waste issues nutritional value and consumer concerns This volume offers a wealth of information on today s technology for fruit and vegetable processing and will be a valuable resource for industry professionals agricultural food processing researchers faculty and upper level students and others

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 *Emerging Technologies for the Food Industry* C. Anandharamakrishnan, Jeyan Arthur

Moses,2024-04-30 With changing consumer preferences and the focus on developing resilient food systems food processing is finding its place in key policies government interventions global trade and the overall food and nutritional security Given this this this new 3 volume collection presents a compilation of emerging and futuristic food processing technologies introducing fundamental concepts of food technology trending applications and a range of interdisciplinary concepts that have found numerous interwoven applications in the food industry Volume 1 presents the basics of food preservation covering hurdle technology aspects of minimal processing ohmic heating of foods edible coatings and electromagnetics and allied applications in food processing It also discusses novel methods of food quality evaluation and covers the fundamentals and new applications of nanotechnology in the food sector The other volumes in the series are Volume 2 Advances in Nonthermal Processing Technologies which focuses on the interesting field of nonthermal processing and its applications and Volume 3 ICT Applications and Future Trends in Food Processing which provides an exploration of the future of food processing highlighting certain emerging and disruptive technologies and their gaining influence in the food sector

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 has 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 *Agro-Processing and Food Engineering* Harish Kumar Sharma,Navneet Kumar,2022-03-22 This textbook highlights the engineering fundamentals and processing aspects of agricultural produce and covers important aspects of agro processing and food engineering in one place The chapters cover material handling drying size reduction process mixing and forming cleaning and separation storage and processing of cereals pulses oilseeds fruit and vegetables and their products The book s contents are systematically designed to provide a balanced overview of agro processing techniques from the basic concepts to the case study handling of the materials and different unit operations The systematic and simple elaboration of scientific aspects will

make it unique and help to develop skills in the field Many illustrations in form of diagrams charts pictures provide a clear understanding Solved numerical problems which are given in the chapters will provide students clarity in conceptualizing the basics The book covers the syllabus related to agro processing and food engineering at the undergraduate and postgraduate level in various universities agricultural universities allied institutes and colleges across the globe It will be extremely beneficial to students as it covers the most important and relevant topics which are hardly covered in any other single compilation and published textbooks It would be a good textbook for universities agricultural universities institutes and colleges running courses in agriculture horticulture postharvest technology process and food engineering food engineering food engineering and technology food technology food science and food and nutrition **Spices Production to Products**

B. Sasikumar,S. J. Eapen,2025-07-17 In a globally connected market ensuring the purity and authenticity of spices is more critical than ever Spices Production to Products Purity and Authenticity addresses the challenges of spice adulteration and contamination that threaten food safety public health forex earnings and the integrity of global supply chains Despite advancements in agriculture processing and regulations spices remain vulnerable to fraud and environmental contaminants This comprehensive volume explores various adulterants and contaminants compromising spice quality and safety presenting state of the art detection methods and containment strategies Combining historical insights with cutting edge research it provides a thorough understanding of intentional and unintentional adulteration Key Features In Depth Analysis Chapters on testing black pepper chilli ginger nutmeg saffron and turmeric Advanced Detection Methods Techniques for identifying mycotoxins pesticides and heavy metals Comprehensive Coverage Focus on consumer awareness supply chain management and sustainability Global Standards Insights into regulatory frameworks and harmonization efforts Practical Strategies Tools for detection and mitigation tailored to professionals and researchers This indispensable resource is designed for regulatory agencies food industry professionals researchers policymakers and informed consumers Whether detecting adulterants developing technologies or advocating for higher standards this book equips you to address the complexities of spice purity and authenticity **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 **Science and Technology Innovation for a Sustainable Economy** Mazharul M. Islam, M. Moazzem Hossain, 2020-08-21 This book discusses the subject of pathways to a sustainable economy through science and technology innovations which are regarded as the important components of the 4th Industrial Revolution The volume has been developed from Bangladesh's Vision 2041 agenda which includes development actions needed to catch up with more developed nations Most importantly the goals of the Vision 2041 have been taken from the dreams of the architect of independent Bangladesh Bangabandhu Sheikh Mujibur Rahman His dream was to make Bangladesh the Switzerland of Asia The Father of Bangladesh Nation was killed by assassins bullets along with his most of the family members in August 1975 After his death the nation moved backwards while recovering from nine months of liberation post war in 1971 Between 1975 and 1990 Bangladesh was ruled by military and quasi military governments Bangladesh established a true democratic regime in 1996 with Sheikh Mujib's daughter Sheikh Hasina who formed the government after 21 years with a mandate to realise the dreams of her father Sheikh Hasina had her own 20 year vision for Bangladesh called Vision 2021 with plans to make the nation poverty free by 2021 After a pause between 2001 and 2008 Sheikh Hasina returned to power in 2009 Under her consecutive three terms she brought Bangladesh back on track and Bangladesh is one of the nations which reduced poverty half under MDGs by 2015 During her third consecutive term Sheikh Hasina is on the way to transforming Bangladesh into a middle income nation by 2021 This volume aims to identify and mitigate the challenges of 4th Industrial Revolution investigating the areas of science and technology innovations for Bangladesh and for other parts of the world keeping in mind establishing a sustainable economy under UN agendas to 2030 SDGs The primary audience for this book are UN development agencies academic institutions government policymakers and business leaders of the more developed and developing nations alike **Sensor-Based Quality Assessment Systems for**

Fruits and Vegetables Bambang Kuswandi, Mohammed Wasim Siddiqui, 2020-12-17 Here is an abundance of valuable information on different sensing techniques for fruits and vegetables The volume covers emerging technologies such as NMR MRI wireless sensor networks WSN and radio frequency identification RFID and their potential for industrial applications Key features of the volume Provides an inclusive review of the developments of sensors for quality analysis and inspection of fresh fruits and vegetables Fosters an understanding of the basic sensing techniques for quality assessment of fresh fruits and vegetables Covers advanced sensing technologies including computer vision spectroscopy X rays magnetic resonance mechanical contact wireless sensor networks and radio frequency identification sensors Reviews the significant progress in sensor development of noninvasive techniques for quality assessment of fruits and vegetables **Nanotechnology-Based E-Noses** Ram K. Gupta, Muhammad Bilal, Mazaher Ahmadi, Tuan Anh Nguyen, 2023-01-12 Nanotechnology based E Noses reviews advances in nanomaterials and their modification for use in e sensors E noses or electronic sensors are emerging as

advanced technologies for the fast detection of chemicals gases and explosives The concept behind the e nose is similar to the capability of humans and dogs in detecting materials based on odors Nanomaterials can be used for e nose technologies but their properties must be modified to make them effective sensors The sensing capability and performance of these materials depend on several factors such as morphology dopants microadditives design of sensors phase and structure of the nanomaterials Theoretical understanding of nanomaterials and technologies for improving sensors with better detection limits are covered The most relevant nanomaterials their synthesis strategies and the relationship between properties and device performance are provided Current state of the art progress in nanotechnology device fabrication along with directions for future applications and challenges are discussed Covers fundamentals of nanomaterials for electronic sensing applications including material synthesis and property optimization strategies to improve material performance Reviews emerging relevant nanomaterials including 1D 2D and 3D nanomaterials for use in e nose technologies Discusses nanotechnology based e noses and their wide range of applications in the detection of chemicals gases explosives and more

Encyclopedia of Agriculture and Food Systems Neal K. Van Alfen, 2014-07-29 Encyclopedia of Agriculture and Food Systems Second Edition Five Volume Set addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face Questions it addresses include Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050 Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today s agriculture practices Will we be able to produce the additional food using less land and water than we use now These are among the most important challenges that face our planet in the coming decades The broad themes of food systems and people agriculture and the environment the science of agriculture agricultural products and agricultural production systems are covered in more than 200 separate chapters of this work The book provides information that serves as the foundation for discussion of the food and environment challenges of the world An international group of highly respected authors addresses these issues from a global perspective and provides the background references and linkages for further exploration of each of topics of this comprehensive work Addresses important challenges of sustainability and efficiency from a global perspective Takes a detailed look at the important issues affecting the agricultural and food industries today Full colour throughout

Nanosensing and Bioanalytical Technologies in Food Quality Control Pranjali Chandra, Parmjit S. Panesar, 2022-03-25 This book reviews applications of nanomaterial and nanodevices in the food industry It also discusses the advanced bioanalytical techniques including Enzyme Linked Immunosorbent Assay ELISA immunoanalytical techniques monoclonal antibody based immunological techniques for detecting food adulterations and allergens It comprehensively covers electrode modification and nano engineered fabrication of biosensors to enhance their functionalities for utilization in food industries The book highlights the utilization of nanobiosensors for food safety and

quality analysis such as detection of toxin food borne pathogen allergen and evaluation of toxicity Further it also summarizes the recent advances in nanodevices such as nano systems nano emulsions nanopesticide nanocapsule and their applications in the food industry Lastly it covers nanomaterial based sensors for drug analysis in diverse matrices It serves as an invaluable source of information for professionals researchers academicians and students related to food science and technology

Green Chemistry in Food Analysis Leo M.L. Nollet,N.C. Basantia,2025-11-19 In today s world ensuring the safety and quality of food is more critical than ever At the same time the need to reduce the environmental impact of laboratory practices is becoming a top priority across the scientific community Green Analytical Chemistry in Food Analysis bridges these two essential goals presenting a comprehensive and forward thinking guide to apply green chemistry principles in the analytical evaluation of food This book is a response to the growing demand for environmentally responsible techniques in food testing methods that do not sacrifice analytical accuracy sensitivity or precision It explores how green analytical chemistry GAC can transform every step of the food analysis process from sample collection and preparation to separation detection and data processing Through a combination of modern technologies novel methodologies and sustainable thinking the field is redefining how we approach contaminants residues and nutritional profiling in food Key topics include Green Sample Preparation Minimizing solvent usage and adopting eco friendly extraction methods Sustainable Separation and Detection Innovations in chromatography spectrometry titrimetry and gravimetry with reduced chemical and energy footprints Cleaner Alternatives Natural indicators alternative solvents and energy efficient instruments Miniaturization and Direct Analysis Reducing waste through compact high efficiency systems Advanced Tools Chemometric and computational approaches to streamline processes and reduce laboratory interventions Real World Applications Case studies focusing on pesticide residues mycotoxins heavy metals and other critical food contaminants Scoring Greenness Calculation of green score using different available metrics with examples Concepts and Principles Concepts and principles of GAC explained in simplest manner to understand in first time Whether you re an analytical chemist food scientist environmental researcher or student this book offers valuable insights into implementing greener methods that meet today s strict regulatory standards while supporting global sustainability goals Green Analytical Chemistry in Food Analysis is more than a technical resource it is a call to action for a cleaner safer and more responsible future in food science

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