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*Graham Brodie, Mohan V. Jacob,
Peter Farrell*

MICROWAVE AND RADIO-FREQUENCY TECHNOLOGIES IN AGRICULTURE

AN INTRODUCTION FOR AGRICULTURALISTS
AND ENGINEERS



Microwave Radio Frequency Technologies Agriculture Agriculturalists

**Satoshi Horikoshi, Graham
Brodie, Koichi Takaki, Nick Serpone**



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Microwave and Radio-Frequency Technologies in Agriculture Graham Brodie, Mohan V. Jacob, Peter Farrell, 2016-01-01
Humanity's ability to produce enough food is mostly due to adoption of new methods and technologies by the agricultural industries as they became available. New information communication and high speed processing and precision agriculture technologies have the potential to transform the agricultural industry. These technologies incorporate radio frequency and microwave radiation into their systems. This book presents an overview of how these technologies are being used in agricultural systems. The main purpose of the book is to provide a glimpse of what is possible and encourage practitioners in the engineering and agricultural industries to explore how radio frequency and microwave systems might further enhance the agricultural industry. The authors have extensive experience in agricultural and microwave engineering instrumentation and communication systems.

Microwave and Radio-Frequency Technologies in Agriculture Mohan V. Jacob, Graham Brodie, Peter Farrell, 2016-02-22
Humanity's ability to produce enough food is mostly due to adoption of new methods and technologies by the agricultural industries as they became available. New information communication and high speed processing and precision agriculture technologies have the potential to transform the agricultural industry. These technologies incorporate radio frequency and microwave radiation into their systems. This book presents an overview of how these technologies are being used in agricultural systems. The main purpose of the book is to provide a glimpse of what is possible and encourage practitioners in the engineering and agricultural industries to explore how radio frequency and microwave systems might further enhance the agricultural industry. The authors have extensive experience in agricultural and microwave engineering instrumentation and communication systems.

Agritech: Innovative Agriculture Using Microwaves and Plasmas Satoshi Horikoshi, Graham Brodie, Koichi Takaki, Nick Serpone, 2022-01-01
This book describes innovative agricultural methods using thermal and non thermal microwave or plasma energies. Humans that were nomadic in the past can now stably obtain food by developing agriculture. Cities were formed as a result of remarkable development. Later chemicals were introduced to agriculture to stabilize the food supply further. Natural products were initially used but various artificial compounds have been developed for agriculture since the 1900s. To further improve crop productivity and diversification, gene recombination, genetic engineering using biotechnology has progressed in recent years and continues to develop further. However, these technologies contain pesticide residues and pose safety risks. The innovative new agriculture explained in this book is based on the use of microwaves and plasma that do not rely on chemicals and genetic modification. This is one of the first books focusing on the agricultural usage of microwaves. In addition, it is a technical book that incorporates plasma into agriculture from this perspective. The book covers microwaves and plasmas which are completely different fields. Thus, it will be attractive to many readers who want to acquaint themselves with these alternative technologies and implement them. This book will be useful to a broad audience including researchers and technicians at

Universities and practitioners in industries It is made accessible to readers across different fields by including abundant figures and by limiting the use of equations to the possible extent

Precision Agriculture Technologies for Food Security and Sustainability Abd El-Kader, Sherine M., Mohammad El-Basioni, Basma M., 2020-10-16 Precision agriculture integrates new technologies with the agronomic experience to intelligently manage the high spatial variability of all agricultural variables and the time scales at which these variables change The right application of this approach increases the size and quality of the agricultural production saves resources improves environmental quality helps to achieve self sufficiency food security and agricultural sustainability increases exports and more Precision Agriculture Technologies for Food Security and Sustainability is an essential reference source that compiles a comprehensive multidisciplinary review of current research in the field of precision agriculture It also discusses cutting edge tools and models that can help facilitate and improve the systems implementation Featuring coverage of a wide range of topics including agronomy public policy and internet of things this book is ideally designed for agriculturalists government officials economists environmentalists academicians researchers students and engineers in the fields of electronics ICT and agriculture

Emerging Microwave Technologies in Industrial, Agricultural, Medical and Food Processing Kok Yeow You, 2018-07-04 Recently the rapid development of microwave technologies has had a significant impact on current industrial agricultural medical and food processing fields This book is a self contained collection of valuable scholarly papers related to the microwave applications This book contains 10 chapters that cover several subtopics of the microwave engineering namely microwave system design models emerging microwave devices and microwave heating drying technologies Hence this book should be useful to the academics scientists practicing researchers and postgraduate students whose works are related to microwave technologies

Environmentally Friendly Technologies for Agricultural Produce Quality Shimshon Ben Yeoshua, 2005-05-26 This book focuses on the most recent environmentally friendly technologies such as physical treatments of heat and modified atmospheric packaging developed to reduce spoilage and maintain the quality of produce Internationally recognized investigators review the latest knowledge in this field With several chapters written by the researchers who developed recent scientific breakthroughs the book details newer technologies in heat treatment that help reduce decay scalding and chilling injury Other topics include the technological revolution in transportation of produce from the producing countries to the consuming countries and the growing trend of demand for fresh cut products

Advanced Technologies for Physical Properties Measurement of Food and its Processing Hao Lin, Lei Zhang, Quansheng Chen, Man Zhou, Lei Qing Pan, Qin Ouyang, Solomon Yao-Say Selorm Adade, Yanyu Li, 2025-02-11 This book provides a comprehensive overview of the physical properties of foods and the cutting edge technologies employed to measure them Delving into key topics such as optical thermal acoustic rheological and textural properties it provides a detailed examination of principles measurement methods and applications in food quality evaluation While it discusses advanced technologies such as near infrared spectroscopy

computer vision spectral imaging acoustic resonance analysis electronic noses tongues eyes and multi sensor data fusion in detail the book also introduces intelligent equipment design and real time quality monitoring systems for the food industry including emerging technologies like 4D printing and terahertz technology The book also addresses critical questions about the application of these technologies in real world scenarios making it a must read for those seeking to understand and apply the latest advancements in food science This book is an invaluable resource for undergraduate and graduate students researchers and professionals in food science and engineering It helps readers understand the principles of various non destructive food quality measurement techniques and applies them to in situ evaluation and in field monitoring It also serves as both a textbook and a reference guide enabling readers to understand and apply advanced measurement and processing techniques for in situ evaluation and in field monitoring By providing a thorough understanding of the principles and applications of food physical properties this book ensures that its audience remains at the forefront of technological advancements in the field The book contains several chapters originally written in the Chinese language The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content

Encyclopedia of Digital Agricultural Technologies Qin Zhang, 2023-10-11 Digital agriculture is an emerging concept of modern farming that refers to managing farms using modern Engineering Information and Communication Technologies EICT aiming at increasing the overall efficiency of agricultural production improving the quantity and quality of products and optimizing the human labor required and natural resource consumption in operations This encyclopedia is designed to collect the summaries of knowledge on as many as subjects or aspects relevant to ECIT for digital agriculture present such knowledge in entries and arrange them alphabetically by articles titles Springer Major Reference Works platform offers Live Update capability Our reference work takes full advantage of this feature which allows for continuous improvement or revision of published content electronically The Editorial Board Dr Irwin R Donis Gonzalez University of California Davis Dept Biological and Agricultural Engineering Davis USA Section Postharvest Technologies Prof Paul Heinemann Pennsylvania State University Department Head of Agricultural and Biological Engineering PA USA Section Technologies for Crop Production Prof Manoj Karkee Washington State University Center for Precision and Automated Agricultural Systems Washington USA Section Robotics and Automation Technologies Prof Minzan Li China Agricultural University Beijing China Section Precision Agricultural Technologies Prof Dikai Liu University of Technology Sydney UTS Faculty of Engineering Information Technologies Broadway NSW Australia Section AI Information and Communication Technologies Prof Tomas Norton University of Leuven Dept of Biosystems Heverlee Leuven Belgium Section Technologies for Animal and Aquatic Production Dr Manuela Zude Sasse Leibniz Institute for Agricultural Engineering and Bioeconomy ATB Precision Horticulture Potsdam Germany Section Engineering and Mechanization Technologies Encyclopedia of Agricultural, Food, and Biological Engineering Dennis R. Heldman, Carmen I. Moraru, 2010-10-21 Examining the role of engineering in delivery

of quality consumer products this expansive resource covers the development and design of procedures equipment and systems utilized in the production and conversion of raw materials into food and nonfood consumer goods With nearly 2000 photographs figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology

Advanced Drying Technologies for Foods Arun S Mujumdar, Hong-Wei Xiao, 2019-06-19 The goal of all drying research and development is to develop cost effective innovative processes that yield high quality dried products with less energy consumption and reduced environmental impact With the literature on drying widely scattered *Advanced Drying Technologies for Foods* compiles under one cover concise authoritative up to date assessments of modern drying technologies applied to foods This book assembles a number of internationally recognized experts to provide critical reviews of advanced drying technologies their merits and limitations application areas and research opportunities for further development Features Provides critical reviews of advanced drying technologies Discusses the merits and limitations of a variety of food drying technologies Explains drying kinetics energy consumption and quality of food products Reviews the principles and recent applications of superheated steam drying The first four chapters deal with recent developments in field assisted drying technologies These include drying techniques with the utilization of electromagnetic fields to deliver energy required for drying for example microwave drying radio frequency drying electrohydrodynamic drying and infrared radiation drying The remainder of this book covers a wide assortment of recently developed technologies which include pulse drying swell drying impinging stream drying and selected advances in spray drying The final chapter includes some innovative technologies which are gaining ground and are covered in depth in a number of review articles and handbooks and hence covered briefly in the interest completeness This book is a valuable reference work for researchers in academia as well as industry and will encourage further research and development and innovations in food drying technologies

Computer and Computing Technologies in Agriculture IV Daoliang Li, Yande Liu, Yingyi Chen, 2011-02-02 This book constitutes Part II of the refereed four volume post conference proceedings of the 4th IFIP TC 12 International Conference on Computer and Computing Technologies in Agriculture CCTA 2010 held in Nanchang China in October 2010 The 352 revised papers presented were carefully selected from numerous submissions They cover a wide range of interesting theories and applications of information technology in agriculture including simulation models and decision support systems for agricultural production agricultural product quality testing traceability and e commerce technology the application of information and communication technology in agriculture and universal information service technology and service systems development in rural areas

Introduction to Advanced Food Process Engineering Jatindra Kumar Sahu, 2014-03-24 Food materials are processed prior to their consumption using different processing technologies that improve their shelf life

and maintain their physicochemical biological and sensory qualities Introduction to Advanced Food Process Engineering provides a general reference on various aspects of processing packaging storage and quality control **Radio-Frequency Heating in Food Processing** George B. Awuah, Hosahalli S. Ramaswamy, Juming Tang, 2014-12-04 This book covers the fundamental science and engineering principles governing radio frequency RF applications and provides a solid understanding of industrial RF unit design options challenges and opportunities for development It explains the similarities differences advantages and limitations of RF and microwave heating discusses dielectric and thermo physical properties provides practical perspectives on industrial RF units used in manufacturing food products examines RF heating effects on microorganisms enzymes and food quality attributes and explores RF heating applications beyond food processing such as waste treatment and counterfeit prevention Interdisciplinary and Sustainability Issues in Food and Agriculture - Volume III Olaf Christen, Victor Squires, Rattan Lal and Rober J. Hudson, 2010-05-24 Interdisciplinary and Sustainability Issues in Food and Agriculture is a component of Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Interdisciplinary and Sustainability Issues in Food and Agriculture provides the essential aspects and discusses a number of issues of importance in the development of specific agriculture and food supply systems that are closely related to general developmental trends of humankind In this context technology and economic development as well as socio cultural developments affect productivity and a secure supply with food These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs *Water Activity in Foods* Gustavo V. Barbosa-Cánovas, Anthony J. Fontana, Jr., Shelly J. Schmidt, Theodore P. Labuza, 2020-06-16 This second edition of Water Activity in Foods furnishes those working within food manufacturing quality control and safety with a newly revised guide to water activity and its role in the preservation and processing of food items With clear instructional prose and illustrations the book s international team of contributors break down the essential principles of water activity and water food interactions delineating water s crucial impact upon attributes such as flavor appearance texture and shelf life The updated and expanded second edition continues to offer an authoritative overview of the subject while also broadening its scope to include six newly written chapters covering the latest developments in water activity research Exploring topics ranging from deliquescence to crispness these insightful new inclusions complement existing content that has been refreshed and reconfigured to support the food industry of today **Emerging Technologies for Food Processing** Da-Wen Sun, 2014-08-14 The second edition of Emerging Technologies in Food Processing presents essential authoritative and complete literature and research data from the past ten years It is a complete resource offering the latest technological innovations in food processing today and includes vital information in research and development for the food processing industry It covers the latest advances in non

thermal processing including high pressure pulsed electric fields radiofrequency high intensity pulsed light ultrasound irradiation and addresses the newest hurdles in technology where extensive research has been carried out Provides an extensive list of research sources to further research development Presents current and thorough research results and critical reviews Includes the most recent technologies used for shelf life extension bioprocessing simulation and optimization

Biotechnology Development and threat of Climate Change in Africa Odunayo C. Adebooye, Kehinde A.

Taiwo, 2010-07-27 The study assessed adaptation of Osun State fish farmers to climate change with a view to providing sustainable adaptive strategies to vagaries of weather in Nigeria Quantitative data were collected with an aid of structured questionnaire Descriptive statistics such as frequency distribution percentages mean and standard deviation were used to summarise the data while Multinomial Logit Model and Adaptation Strategy Index were used to determine the choice of Adaptation Strategies and the extent of use of the strategies by fish farmers in the State The results showed that the mean age of fish farmers was 48 years and the mean fish farming experience was 8 years About 75 percent of the respondents perceived climate change but only 29 percent of them took actions to reduce the impacts of the climate change Adaptation strategies used to reduce the impacts include reinforcement of dyke provision of shade and practice of polyculture Others include ensure free flow of water change stocking periods and provision of reservoir Adaptive Strategy Use Index showed that reinforcement of dyke was mostly used among the adaptive strategies followed by provision of shade practice of polyculture free flow of water change stocking period and provision of reservoir Also Multinomial logit model showed that fish farming experience education information and size of fishpond are important factors to be considered when planning climate change programmes for fish farmers The study concluded that many fish farmers perceived change in climate but few of them attempted to reduce the impacts of the change by adopting different adaptation strategies *Agricultural Research*, 1971

Proceedings of the 12th National Technical Seminar on Unmanned System Technology 2020

Khalid Isa, Zainah Md. Zain, Rosmiwati Mohd-Mokhtar, Maziyah Mat Noh, Zool H. Ismail, Ahmad Anas Yusof, Ahmad Faisal Mohamad Ayob, Syed Saad Azhar Ali, Herdawatie Abdul Kadir, 2021-09-24 This book comprises the proceedings of the 12th National Technical Symposium on Unmanned System Technology 2020 NUSYS 20 held on October 27 28 2020 It covers a number of topics including intelligent robotics novel sensor technology control algorithms acoustics signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols and it appeals to researchers developing marine technology solutions and policy makers interested in technologies to facilitate the exploration of coastal and oceanic regions Thermal Food Processing Da-Wen Sun, 2012-05-16 Thermal processing remains one of the most important processes in the food industry Now in its second edition Thermal Food Processing New Technologies and Quality Issues continues to explore the latest developments in the field Assembling the work of a worldwide panel of experts this volume highlights topics vital to the food industry today an

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