

Application of Microwaves in food industry

1. Microwave Drying

- Complex process of heat and mass transfer based on volumetric heating
- Vapour is generated inside a food item and then spread through internal pressure gradient
- Microwaves are penetrable and inside and outside are heated at the same time (Volumetric heating)
- The liquid moisture is intensively evaporated and transported toward the surface
- Drying consists of three stages
 - Heating up
 - Constant rate drying
 - Falling rate drying

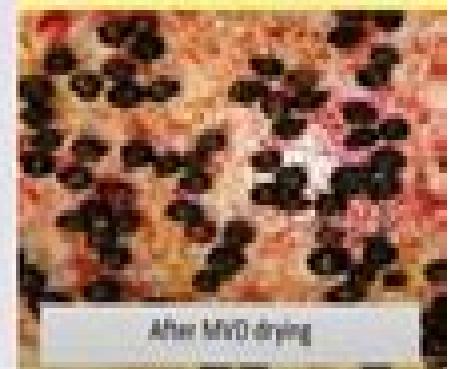
Microwave drying machine



Before MFD drying



After MFD drying



Microwaves In The Food Processing Industry

Amit K. Jaiswal

Microwaves In The Food Processing Industry:

Microwaves in the Food Processing Industry Robert V. Decareau, Richard E. Mudgett, 1985 Background of the development of microwave heating technology Dielectric properties of food Richard E Mudgett Modeling microwave heating characteristics Richard E Mudgett Conveyorized microwave equipments Dehydration Freeze drying Processing of meat and meat products Blanching Baking Thawing Pasteurization and sterilization Future prospects for microwave processing Where do we go from here *Microwaves in the food processing industry*, 1985 **The Microwave Processing of Foods** Marc Regier, Kai Knoerzer, Helmar Schubert, 2016-11-01 The Microwave Processing of Foods Second Edition has been updated and extended to include the many developments that have taken place over the past 10 years Including new chapters on microwave assisted frying microwave assisted microbial inactivation microwave assisted disinfection this book continues to provide the basic principles for microwave technology while also presenting current and emerging research trends for future use development Led by an international team of experts this book will serve as a practical guide for those interested in applying microwave technology Provides thoroughly up to date information on the basics of microwaves and microwave heating Discusses the main factors for the successful application of microwaves and the main problems that may arise Includes current and potential future applications for real world application as well as new research and advances Includes new chapters on microwave assisted frying microbial inactivation and disinfection *Microwave Processing of Foods: Challenges, Advances and Prospects* Anubhav Pratap Singh, Ferruh Erdogan, Shaojin Wang, Hosahalli S. Ramaswamy, 2024-08-27 The application of microwaves has been a major advancement in food processing over the past 50 years and yet to date there have been very few publications focusing exclusively on microwave processing and none covering the latest technological and theoretical advances *Microwave Processing of Foods Challenges Advances and Prospects* fills this gap by covering all aspects of the microwave processing of foods including the latest novel advances in this fast moving subject area This text presents multidisciplinary views of novel microwave systems novel process modeling engineering and design as well as practical approaches on methodology and findings regarding the effect of microwave on the food quality and process safety The volume comprises several chapters on the newest processing and machinery aspects engineering design and process modeling process safety and novel processes based on full or partial application of microwave in food processing This book also considers economic aspects food quality issues and future trends of microwave application in the food industry Each chapter in this text functions as a critical review presenting the current state of knowledge based on the personal experience of the authors and the current state of published research in one particular area of food processing While the main focus is on processing the physical principles and the chemical and microbiological basis of the process are also covered plus the impact of the technology on the quality and safety of food This book presents a comprehensive and fully up to date reference on the principles and applications of microwave processing of food products **Advances in**

Microwave and Radio Frequency Processing M. Willert-Porada, 2007-05-17 Prometheus brought fire to mankind Arthur R von Hippel Dielectrics and Waves 1954 Our contribution There are only few areas of research and development of a comparable scientific and technological extension as microwave and high frequency processing Processing means not only application of radiation of 300 MHz to 300 GHz frequency to synthesis heating or ionisation of matter but also generation transmission and detection of microwave and radio frequency radiation Microwave and high frequency sources positioned in the orbit are the foundation of modern satellite telecommunication systems gyrotron tubes being primarily developed in different countries all over the world will most probably be the major devices to open up a new era of energy supply to mankind by means of ion plasma Although initiated by military purposes during the Second World War RADAR Radio Detection and Ranging microwave and high frequency utilisation has spread over almost every important aspect of normal day life since than from individual mobile phones and kitchen microwave ovens to industrial food processing production of composites as sustainable building materials green chemistry medical applications and finally infrastructure installations like GPS and Galileo to name only few examples These different areas of microwave and high frequency radiation application can not be unified within one group of scientists and technologists There are several distinguished communities active e.g. in the area of telecommunication systems strong microwaves for fusion plasma or plasma based materials processing Thermal Technologies in Food Processing P Richardson, 2001-04-24 Thermal technologies have long been at the heart of food processing The application of heat is both an important method of preserving foods and a means of developing texture flavour and colour An essential issue for food manufacturers is the effective application of thermal technologies to achieve these objectives without damaging other desirable sensory and nutritional qualities in a food product Edited by a leading authority in the field and with a distinguished international team of contributors Thermal technologies in food processing addresses this major issue Part one of the collection begins with reviews of conventional retort and continuous heat technologies Part two then looks at the key issues of effective measurement and control in ensuring that a thermal process is effective whilst minimising any undesirable changes in a food There are chapters on temperature and pressure measurement validation of heat processes modelling and simulation of thermal processes and the measurement and control of changes in a food during thermal processing The final part of the book looks at emerging thermal technologies which are becoming more widely used in the food industry There are chapters on radio frequency heating microwave processing infrared heating instant and high heat infusion and ohmic heating A final chapter considers how thermal processing may be combined with high pressure processing in producing safe minimally processed food products Thermal technologies in food processing provides food manufacturers and researchers with an authoritative review of thermal processing and food quality Food Processing Technologies Amit K. Jaiswal, 2016-08-05 The processing of food generally implies the transformation of the perishable raw food to value added products It imparts benefits such as the destruction of surface microflora and inactivation

of deleterious enzymes such as peroxidase leading to a greater shelf life of the food It also enhances color and texture while maintaining quality of products and makes them edible However it also has an inevitable impact on nutritional quality attributes such as increase or decrease in certain vitamins and bioactive metabolites among others Food Processing Technologies Impact on Product Attributes covers a range of food processing technologies and their effect on various food product attributes such as bioactive compounds safety and sensory and nutritional aspects of the food upon processing There are eight major parts in the book Part I covers the conventional processing technologies Parts II III IV and V deal with various novel processing technologies including impingement processing technologies electro magnetic processing technologies physico mechanical processing technologies and electro technologies Part VI introduces chemical processing technologies Part VII comprise irradiation processing technology and the final part is focused on biological processing technology detailing the application of enzymes in food processing Numerous studies were carried out to find the impact of these processing technologies on various aspects of food and associated health promotion properties Both positive and negative results were obtained based on nature of foods processing type and duration of processing and this book covers these results in depth

Microwave Processing and Engineering Robert V. Decareau, Robert A. Peterson, 1986 **Food Processing Industry**, 1972 **Comprehensive Biotechnology**, 2019-07-17 Comprehensive Biotechnology Third Edition

Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science

Radio-Frequency Heating in Food Processing George B. Awuah, Hosahalli S. Ramaswamy, Juming Tang, 2014-12-04 Radio Frequency Heating in Food Processing Principles and Applications covers the fundamentals of radio frequency RF heating and the use of RF heating technologies in modern food processing preservation and related industries Focusing on industrial and lab scale applications where RF heating has been employed successfully or reported to have potential benefits over conventional heating options this state of the art reference Explains the similarities differences advantages and limitations of RF and microwave heating as applied to agricultural products Describes fiber optics temperature sensors and their utility in monitoring temperature during RF and microwave heating Discusses the dielectric and thermo physical properties of agricultural products amenable to RF and microwave heating presenting measurement techniques mathematical concepts and computer simulation models Provides practical perspectives on industrial RF units used in manufacturing food products

addressing free running oscillators and 50 designs for RF heaters and applicators. Uses finite element formulations to determine design parameters including resonant modes circuit impedance and electric field distribution in RF applicators. Examines RF heating effects on microorganisms enzymes and food quality attributes for products such as poultry beef pork eggs fish milk fruits vegetables and seafood. Explores RF heating applications beyond food processing such as agricultural product deinfestation waste treatment counterfeit prevention package tracking and transportation of food from farm to table. Radio Frequency Heating in Food Processing Principles and Applications supplies an in depth overview of the fundamental science and engineering principles governing RF applications as well as a solid understanding of industrial RF unit design options challenges and opportunities for development. *The Journal of Microwave Power and Electromagnetic Energy*, 1991

Microwaves - Their Commercial Applications, Properties and Effects A. Turtell, 1986 **CSIRO Food Research Quarterly** Commonwealth Scientific and Industrial Research Organization (Australia). Division of Food Research, 1986 Application of Microwave Vacuum and Liquid Media Dehydration for the Production of Dried Grapes Carter DeFrest Clary, 1994 **CSIRO food research quarterly**, 1985 *Microwaves* Jacques Thuéry, 1992 This book deals with all aspects of industrial scientific and medical ISM applications of microwaves. The text covers not only the theoretical and applied aspects of electromagnetism but also explores current research industrial considerations and historical and regulatory issues CSIRO Food Preservation Quarterly, 1984 **The Influence of Microwave Heating on the Formation of N- Nitrosamines in Bacon** Shaun Chenghsiu Chen, 1991 **Food Processing Review**, 1965

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