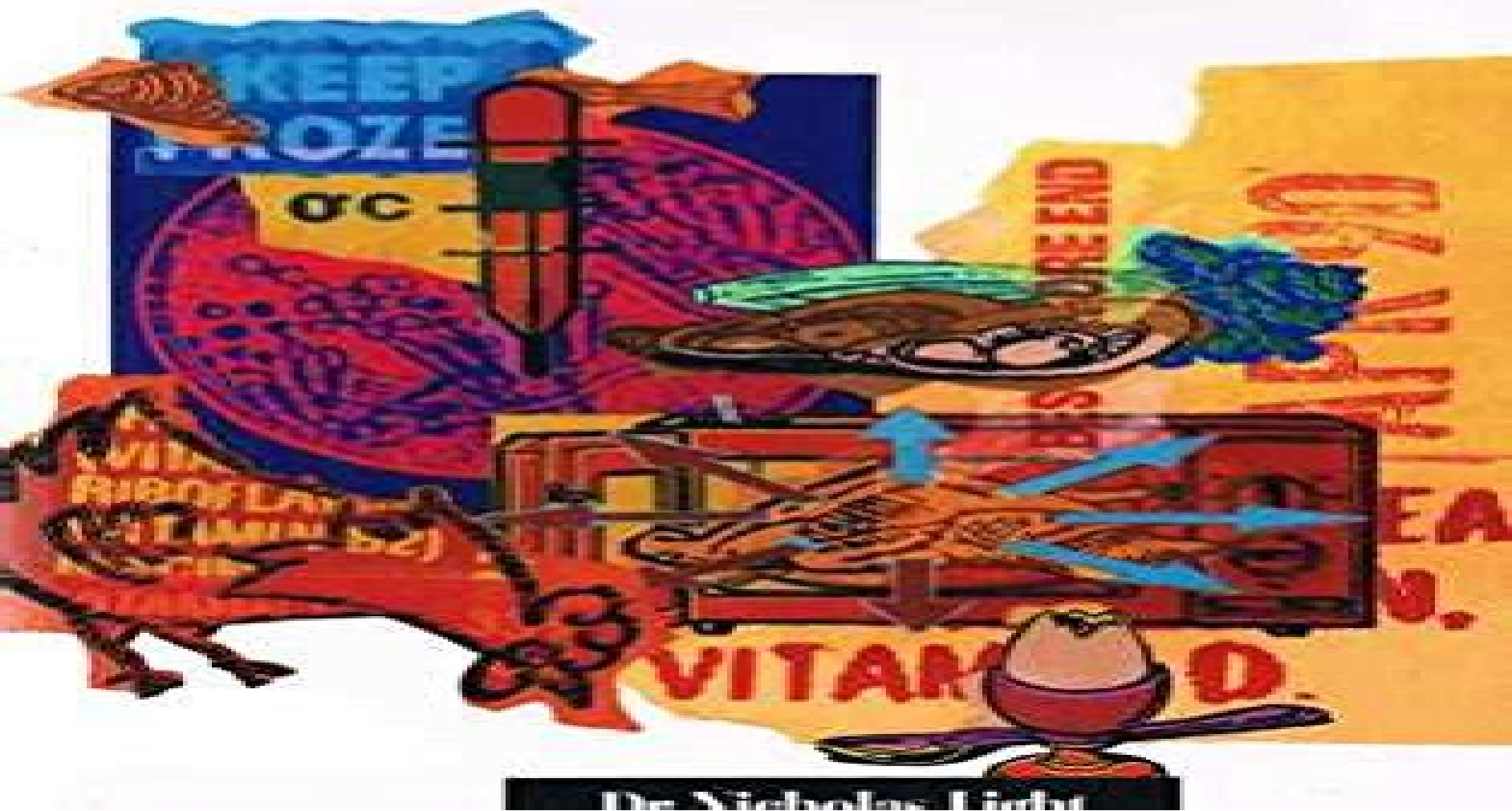


LONGMAN
FOOD SCIENCE

Handbook



Dr. Nicholas Light

Longman Food Science Handbook

**Theunis Christoffel Robberts, Theunis
C. Robberts**



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Longman Food Science Handbook Nicholas D. Light, 1991 Ideal for both quick reference and detailed study the subject areas covered include chemistry cells and respiration food poisoning and food spoilage metabolism and energy vitamins energy food quality processing dairy products and eggs

Applications of Vibrational Spectroscopy in Food Science, 2 Volume Set Eunice Li-Chan, John M. Chalmers, Peter R. Griffiths, 2010-11-01 Bringing several disparate aspects of food science and analysis together in one place *Applications of Vibrational Spectroscopy to Food Science* provides a comprehensive state of the art text presenting the fundamentals of the methodology as well as underlying current areas of research in food science analysis All of the major spectroscopic techniques are also covered showing how each one can be used beneficially and in a complementary approach for certain applications Case studies illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs

Confectionery and Chocolate Engineering Ferenc A. Mohos, 2017-02-06 Confectionery and chocolate manufacture has been dominated by large scale industrial processing for several decades It is often the case though that a trial and error approach is applied to the development of new products and processes rather than verified scientific principles *Confectionery and Chocolate Engineering Principles and Applications* Second edition adds to information presented in the first edition on essential topics such as food safety quality assurance sweets for special nutritional purposes artisan chocolate and confectioneries In addition information is provided on the fading memory of viscoelastic fluids which are briefly discussed in terms of fractional calculus and gelation as a second order phase transition Chemical operations such as inversion caramelization and the Maillard reaction as well as the complex operations including conching drying frying baking and roasting used in confectionery manufacture are also described This book provides food engineers scientists technologists and students in research industry and food and chemical engineering related courses with a scientific theoretical description and analysis of confectionery manufacturing opening up new possibilities for process and product improvement relating to increased efficiency of operations the use of new materials and new applications for traditional raw materials

Food, Science, and Technology Richard E. Wallace, 1978

Food Plant Design Antonio Lopez-Gomez, Gustavo V. Barbosa-Canovas, 2005-05-06 Although chemical engineering and food technology are subject areas closely related to food processing systems and food plant design coverage of the design of food plants is often sporadic and inadequately addressed in food technology and engineering books Some books have attempted to treat food engineering from this dual point of view but most have not achieved balanced coverage of the two Focusing on food processing rather than chemical plants *Food Plant Design* presents precise design details with photos and drawings of different types of food processing plants including food processing systems refrigeration and steam systems conveying systems and buildings The authors discuss the subject in an ordered format that gives you the tools to produce food products with minimum cost Including modeling procedures for food processing systems and auxiliary systems they elucidate

synthesis techniques and procedures Using a clear structure for different levels of information and data on different food processing alternatives the book outlines solutions to plant design problems in the context of overall optimization of an agro industrial system and corresponding food chain It provides the work procedures and techniques for solving the design problems of a food processing plant and in making a defined food product

Handbook of Food Science, Technology, and Engineering Yiu H. Hui, 2006

Food Physics Ludger Figura, Arthur A. Teixeira, 2007-08-24 This is the first textbook in this field of increasing importance for the food and cosmetics industries It is indispensable for future students of food technology and food chemistry as well as for engineers technologists and technicians in the food industries It describes the principles of food physics starting with the very basics and focuses on the needs of practitioners without omitting important basic principles It will be indispensable for future students of food technology and food chemistry as well as for engineers technologists and technicians in the food industries Food Physics deals with the physical properties of food food ingredients and their measurement

The British National Bibliography Arthur James Wells, 1995

Allergen Management in the Food Industry Joyce I. Boye, Samuel Benrejeb Godefroy, 2011-01-14 This book comprehensively addresses the sources of allergenic contaminants in foods their fate during processing and the specific measures that need to be taken to minimize their occurrence in foods The book provides up to date information on the nine major allergens as well as other emerging allergens and practical guidelines on how these allergens can be identified and controlled during production and processing Starting with an introduction to food allergens the book follows with sections on food allergen management during production and processing guidelines for the processing of specific allergen free foods techniques for hypo allergenization and allergen detection and allergen free certification

Consumer Research Methods in Food Science Carlos Gómez-Corona, Heber Rodrigues, 2023-04-07 This volume details a wide range of consumer research methods from different disciplines with an application to food and beverages Each chapter is written by well known researchers in the field that guides the reader on a specific method in applied consumer research Chapters are separated by disciplines detail brief theoretical background provide a clear examples of the methodology anthropology history linguistics and visual arts culinary arts design and user experience are also approached The separation of methods through disciplines gives a better structure to the reader when trying to apply each method Authoritative and cutting edge Consumer Research Methods in Food Science detail clear steps and a framework to reproduce consumer research methods in different applications

Food Plant Engineering Systems Theunis Christoffel Robberts, Theunis C. Robberts, 2002-06-13 Pumps Boilers Power transmission Water treatment Waste disposal Efficient lighting Maintain them and you ll experience optimal performance Ignore them and the system will collapse While many texts adequately describe the processing lines used in food manufacturing none address the importance of the ancillary equipment that allows the plant to operate Food Plant Engineering Systems fills this gap by focusing on these crucial but frequently forgotten parts of the system With clear easy to understand language this book

details the bits and pieces that keep systems running and explains how they fit within the bigger picture Properties of fluids Pumps and piping Electrical systems including motors starters electrical heating and lights Steam generation and heating systems Cooling and refrigeration systems Water and waste and material handling systems Food plant design including site foundations floors walls roofs drains and insulation Safety and EPA regulations Getting all the units to work together as a well orchestrated system is what manufacturing design and management are all about This book provides the first truly comprehensive look at food plant operation Food Plant Engineering Systems ensures that all elements of the system are properly balanced to efficiently accomplish the job

Food Science and Technology Geoffrey Campbell-Platt, 2011-08-26 This brand new comprehensive text and reference book is designed to cover all the essential elements of food science and technology including all core aspects of major food science and technology degree programs being taught worldwide Food Science and Technology supported by the International Union of Food Science and Technology comprises 21 chapters carefully written in a user friendly style by 30 eminent industry experts teachers and researchers from across the world All authors are recognised experts in their respective fields and together represent some of the world's leading universities and international food science and technology organisations Expertly drawn together produced and edited Food Science and Technology provides the following Coverage of all the elements of food science and technology degree programs internationally Essential information for all professionals in the food industry worldwide Chapters written by authoritative internationally respected contributing authors A must have reference book for libraries in every university food science and technology research institute and food company globally Additional resources published on the book's web site www.wiley.com/go/campbellplatt About IUFOST The International Union of Food Science and Technology IUFOST is a country membership organisation representing some 65 member countries and around 200 000 food scientists and technologists worldwide IUFOST is the global voice of food science and technology dedicated to promoting the sharing of knowledge and good practice in food science and technology internationally IUFOST organises World Congresses of Food Science and Technology and has established the International Academy of Food Science and Technology IAFoST to which eminent food scientists can be elected by peer review For further information about IUFOST and its activities visit www.iufost.org

Near-Infrared Spectroscopy in Food Science and Technology Yukihiro Ozaki, W. Fred McClure, Alfred A.

Christy, 2006-10-25 This reference gives food science professionals a working understanding of near infrared spectroscopy NIRS and its role in maximizing food potential It explains the technical aspects of NIRS including basic principles characteristics of the NIR spectra instrumentation sampling techniques and chemometrics The book details applications of NIRS in agricultural and marine products foodstuffs and processed foods engineering and process monitoring and food safety and disease diagnosis

Magnetic Resonance in Food Science Peter S Belton, A M Gil, G A Webb, Doug Rutledge, 2007-10-31 The term magnetic resonance covers a wide range of techniques spectroscopy relaxation and imaging

In turn these areas are evolving and leading to various new applications of NMR and ESR in food science and nutrition From assessment of meat quality through to a study of beer components and the effect of microwaves on potato texture Magnetic Resonance in Food Science Latest Developments provides an account of the state of the art in this lively area Coverage includes recent developments in magnetic resonance human aspects of food structure and dynamics in food and food quality control With contributions from international experts this book is essential reading for academics and industrialists in food science It is the latest in a series of titles in this area published by the RSC

Applied Food Science and Engineering with Industrial Applications Cristóbal Noé Aguilar,Elizabeth Carvajal-Millan,2019-01-25 Applied Food Science and Engineering with Industrial Applications highlights the latest advances and research in the interdisciplinary field of food engineering emphasizing food science as well as quality assurance The volume provides detailed technical and scientific background of technologies and their potential applications in food preservation The volume s broad perspective reflects the expertise of international and interdisciplinary engineers drawing on that of food technologists microbiologists chemists mechanical engineers biochemists geneticists and others The volume will be valuable and useful for researchers scientists and engineers as well as for graduate students in this dynamic field This book is a rich resource on recent research innovations in food science and engineering with industrial applications presenting a practical unique and challenging blend of principles and applications

Emerging Food Authentication Methodologies Using GC/MS Kristian Pastor,2023-07-27 This edited book provides an overview of existing and emerging gas chromatography mass spectrometry GC MS based methods for the authentication and fraud detection in all major food groups and beverages Split in four parts the book opens with a comprehensive introduction into the GC MS technique and a summary of relevant statistical and mathematical models for data analysis The main parts focus on the authentication of the main food groups cereals dairy products fruit meat etc and beverages e g coffee tea wine and beer The chapters in these sections follow a distinct structure describing the nutritional value of the product common fraud practices economic implications and relevant biomarkers for the authentication process such as volatile compounds fatty acids amino acids isotope ratios etc The final chapter provides an outlook on where the methodologies and the applications may be heading for Food fraud is serious problem that affects food industries of all kinds which is why food authentication plays an increasingly important role This book aims to serve as a knowledge base for all researchers in academia regulatory laboratories and industry employing GC MS for food analysis Due to its comprehensive introduction and consistent structure it can also serve as an excellent resource for students in food science food technology food chemistry and nutrition

Roselle S. M. Sapuan,Nadlene Razali,A.M. Radzi,R.A. Ilyas,2021-07-30 Roselle Production Processing Products and Biocomposites compiles the latest findings on the production processing products and composites of the roselle plant The book provides researchers with the latest information on its entire use including fibers and fruit for any application Subjects covered include environmental advantages and challenges

the plant as a renewable resource economic issues such as the impact of biobased medicines biodiesel the current market for roselle products and regulations for food packaging materials Sections include commentary from leading industrial and academic experts in the field who present cutting edge research on roselle fiber for a variety of industries By comprehensively covering the development and characterization of roselle fiber as a potential to replace conventional fiber made from petroleum based polymers this book is a must have resource for anyone requiring up to date knowledge on the lifecycle of the roselle plant Includes commentary from leading industrial and academic experts in the field who present cutting edge research on roselle fiber for a variety of industries Comprehensively covers the development and characterization of roselle fiber as a potential to replace conventional fiber made from petroleum based polymers Focuses on the development and characterization of roselle nanocellulose reinforced biopolymer composites **Kirk-Othmer Food**

and Feed Technology, 2 Volume Set Wiley,2007-12-14 This two volume set features selected articles from the Fifth Edition of Wiley s prestigious Kirk Othmer Encyclopedia of Chemical Technology This compact reference features the same breadth and quality of coverage found in the original but with a focus on topics of particular interest to food technologists chemists chemical and process engineers consultants and researchers and educators in food and agricultural businesses alcohol and beverage industries and related fields Descriptive Food Science Antonio Valero Díaz,Rosa María

García-Gimeno,2018-11-28 Deep knowledge of the chemical composition nutrients physical properties toxicology and microbiological composition of food allows for the production of safe high quality foods This knowledge is fundamental when producing preserving manipulating and distributing food substances especially to reduce the risks to consumer health The full extent of the effects on the composition of foods treated by new technologies is still unknown and it must be considered to guarantee that food is produced safely Descriptive Food Science gives an in depth insight into this field Section 1 focuses on the quality of various foods and Section 2 centers on how different technological treatments affect the quality of food

Dairy Ingredients for Food Processing Ramesh C. Chandan,Arun Kilara,2011-03-15 The objective of this book is to provide a single reference source for those working with dairy based ingredients offering a comprehensive and practical account of the various dairy ingredients commonly used in food processing operations The Editors have assembled a team of 25 authors from the United States Australia New Zealand and the United Kingdom representing a full range of international expertise from academic industrial and government research backgrounds After introductory chapters which present the chemical physical functional and microbiological characteristics of dairy ingredients the book addresses the technology associated with the manufacture of the major dairy ingredients focusing on those parameters that affect their performance and functionality in food systems The popular applications of dairy ingredients in the manufacture of food products such as dairy foods bakery products processed cheeses processed meats chocolate as well as confectionery products functional foods and infant and adult nutritional products are covered in some detail in subsequent chapters Topics are presented in a logical

and accessible style in order to enhance the usefulness of the book as a reference volume It is hoped that Dairy Ingredients for Food Processing will be a valuable resource for members of academia engaged in teaching and research in food science regulatory personnel food equipment manufacturers and technical specialists engaged in the manufacture and use of dairy ingredients Special features Contemporary description of dairy ingredients commonly used in food processing operations Focus on applications of dairy ingredients in various food products Aimed at food professionals in R D QA QC manufacturing and management World wide expertise from over 20 noted experts in academe and industry

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