

Extrusion Processing Technology

Food and
Non-Food
Biomaterials

Jean-Marie Bouvier
Osvaldo H. Campanella



WILEY Blackwell

Extrusion Processing Technology Food And Non Food Biomaterials

Gustavo V. Barbosa-Cánovas



Extrusion Processing Technology Food And Non Food Biomaterials:

Extrusion Processing Technology Jean-Marie Bouvier, Osvaldo H. Campanella, 2014-06-23 Extrusion is the operation of forming and shaping a molten or dough like material by forcing it through a restriction or die It is applied and used in many batch and continuous processes However extrusion processing technology relies more on continuous process operations which use screw extruders to handle many process functions such as the transport and compression of particulate components melting of polymers mixing of viscous media heat processing of polymeric and biopolymeric materials product texturization and shaping defibering and chemical impregnation of fibrous materials reactive extrusion and fractionation of solid liquid systems Extrusion processing technology is highly complex and in depth descriptions and discussions are required in order to provide a complete understanding and analysis of this area this book aims to provide readers with these analyses and discussions Extrusion Processing Technology Food and Non Food Biomaterials provides an overview of extrusion processing technology and its established and emerging industrial applications Potency of process intensification and sustainable processing is also discussed and illustrated The book aims to span the gap between the principles of extrusion science and the practical knowledge of operational engineers and technicians The authors bring their research and industrial experience in extrusion processing technology to provide a comprehensive technical yet readable volume that will appeal to readers from both academic and practical backgrounds This book is primarily aimed at scientists and engineers engaged in industry research and teaching activities related to the extrusion processing of foods especially cereals snacks textured and fibrated proteins functional ingredients and instant powders feeds especially aquafeeds and petfoods bioplastics and plastics biosourced chemicals paper pulp and biofuels It will also be of interest to students of food science food engineering and chemical engineering Also available Formulation Engineering of Foods Edited by J E Norton P J Fryer and I T Norton ISBN 978 0 470 67290 7 Food and Industrial Bioproducts and Bioprocessing Edited by N T Dunford ISBN 978 0 8138 2105 4 Handbook of Food Process Design Edited by J Ahmed and M S Rahman ISBN 978 1 4443 3011 3 **Food Engineering Innovations Across the Food Supply Chain** Pablo Juliano, Kai Knoerzer, Jay Sellaheewa, Minh H. Nguyen, Roman Buckow, 2021-12-05 Food Engineering Innovations Across the Food Supply Chain discusses the technology advances and innovations into industrial applications to improve supply chain sustainability and food security The book captures the highlights of the 13th International Congress of Engineering ICEF13 under selected congress themes including Sustainable Food Systems Food Security Advances in Food Process Engineering Novel Food Processing Technologies Food Process Systems Engineering and Modeling among others Edited by a team of distinguished researchers affiliated to CSIRO this book is a valuable resource to all involved with the Food Industry and Academia Feeding the world s population with safe nutritious and affordable foods across the globe using finite resources is a challenge The population of the world is increasing There are two opposed sub populations those who are more affluent and want to decrease their caloric intake and

those who are malnourished and require more caloric and nutritional intake For sustainable growth an increasingly integrated systems approach across the whole supply chain is required Focuses on innovation across the food supply chain beyond the traditional food engineering discipline Brings the integration of on farm with food factory operations the inclusion of Industry 4.0 sensing technologies and Internet of Things IoT across the food chain to reduce food wastage water and energy inputs Makes a full intersection into other science domains operations research informatics agriculture and agronomy machine learning artificial intelligence and robotics intelligent packaging among others

Genetic Modification and Food Quality Robert Blair, Joe M. Regenstein, 2015-08-03 The development of recombinant DNA methods has changed the face of the food industry over the last 50 years Crops which have been genetically modified are being cultivated in more and more countries and this process is likely to accelerate as desirable traits are identified and transferred to appropriate organisms and they are cleared by the regulatory authorities However the technique has its critics who claim that modification of the genome of the plant or animal in this way may pose unknown and unacceptable risks to the human consumer Genetic Modification and Food Quality A Down to Earth Analysis is the first comprehensive text on how GM production methods influence the quality of foods and feeds based on a complete and unbiased assessment of the scientific findings It presents a balanced analysis of the benefits and drawbacks of gene modified food sources in the human diet Chapters approach the topic with regard to different food types such as cereal grains oilseed crops vegetables fish and animal products Assessing the nutritive value as well as the health and safety of GMO foods this book is a reference for anyone working in the food production industry and will also be of an interest to NGOs trade associations and consumers who are looking for an objective balanced study of this contentious issue

Novel Physical Processing of Starch-Based Products Enbo Xu, Dandan Li, Yang Tao, 2024-07-16 From the perspective of physical action and materials science this book reviews the structural modification of starch and evaluates novel physical processing of starch based products The contributors systematically explain the multi scale structures of starches and explore various treatments of starch and starch based materials including hydrothermal treatment high pressure treatment extrusion treatment electric field treatment microwave treatment ultrasonic treatment cold plasma treatment and 3D printing By thoroughly analyzing and summarizing the structural control of starch they aim to obtain starch based products with better physicochemical properties and texture Furthermore their industrial applications for future food supply are also demonstrated This book will benefit researchers and graduate students in the fields of starch starch based materials and food and non food processing

Ready-to-Eat Snacks Ravi Pandiselvam, Gülsah Çaliskan Koç, 2025-05-09 Modern life is intense and moves quickly and while people want to care for themselves they do not seem to have time to make and consume healthy foods This has raised the need for quickly prepared foods such as ready to eat snacks that must be nutritious as well as delicious Various traditional as well as emerging technologies including 3D printing microwave cooking vacuum impregnation osmotic dehydration puffing drying

air frying and more have been employed to create ready to eat snacks This new book provides an overview of today s science on ready to eat snacks focusing on traditional production methods as well as emerging technologies of ready to eat snacks along with their disadvantages Providing an in depth analysis of how emerging technologies are used in ready to eat snacks the book starts with the benefits and drawbacks of conventional production techniques It covers the uses of developing technologies for the manufacture of ready to eat snacks as well as difficulties and future opportunities It also investigates how the bioactive components of ready to eat snacks are changed during processing and production Chapters cover 3D printing technology hot extrusion technology roasting technology osmotic dehydration combined with drying technology flaking puffing parching popping and instant technologies vacuum impregnation technology microwave applications and preservation of ready to eat snacks

Smart Food Industry: The Blockchain for Sustainable Engineering Eduardo Jacob Lopes, Leila Queiroz Zepka, Mariany Costa Deprá, 2023-12-01 Smart Food Industry The Blockchain for Sustainable Engineering Volume I Fundamentals Technologies and Management is a comprehensive overview of the current state of knowledge about food engineering and processing under sustainable engineering perspective This book includes disruptive approaches that will potentially enable the food industry for the transition to sustainable production Divided into four parts the book explores i fundamentals of sustainable food ii conventional technologies in the food industry iii sustainable emerging technologies in food industries and iv sustainable management in food industries The book is an invaluable reference resource for students researchers graduates and professionals in general who wish to gain knowledge in the engineering and food processing area as well as about sustainable food industry practices

Handbook of Coriander (Coriandrum sativum) Mohamed Fawzy Ramadan, 2023-02-10 Coriander *Coriandrum sativum* L family Umbelliferae Apiaceae is one of the most popular spices globally Different parts of *Coriandrum sativum* are edible and widely used as a seasoning due to their unique flavor and aroma *Coriandrum sativum* medical uses have been recognized since ancient times Coriander leaves cilantro and coriander fruit seed are used in different ethnic foodstuffs meat and poultry dishes soup pudding bread and seafood dishes *Coriandrum sativum* is rich in linalool vitamin A vitamin B12 vitamin C folate and phenolics *Coriandrum sativum* fixed oil is rich in sterols tocopherols and bioactive phytochemicals Petroselinic acid is the major fatty acid in *Coriandrum sativum* fixed oil and exhibits health promoting traits *Coriandrum sativum* is recommended as a food preservative to replace synthetic antioxidants because of its antioxidant and antibacterial traits Furthermore *Coriandrum sativum* cilantro and seeds are rich in water soluble and lipid soluble phytochemicals that showed unique anticancer anxiolytic neuroprotective migraine relieving hypoglycemic hypolipidemic anticonvulsant analgesic and anti inflammatory traits Those medical benefits and their integration into daily life render *Coriandrum sativum* an excellent functional food Regarding the cosmetic industry *Coriandrum sativum* is used as an ingredient in conventional Ayurvedic cosmetic formulations to normalize skin color In addition *Coriandrum sativum* volatile oil finds use as an ingredient in perfumes Handbook of Coriander *Coriandrum sativum*

Chemistry Functionality and Applications is a valuable resource for pharmaceutical and nutraceutical developers as well as novel food developers and R D researchers in a variety of fields that use herbs spices and medicinal plants Key Features Explores the chemistry of Coriandrum sativum phytochemicals oils and extracts Discusses Coriandrum sativum active constituents and their health enhancing traits Presents the applications of Coriandrum sativum phytochemicals oils and extracts Addresses the growing application areas including horticulture functional food clinical nutrition pharmaceuticals and cosmetics Authored by international scientists and industry experts this book is a great resource for food chemistry clinical nutrition biochemistry pharmacology and horticulture researchers and students as well as developers of novel food cosmetics and pharmaceuticals in addition to R D researchers in different sectors that utilize herbs spices and medical plants

Encyclopedia of Separation Science Ian D. Wilson, E. R. Adlard, Michael Cooke, C. F. Poole, 2000 Volume 1 of this resource encyclopedia contains Level 1 which provides a broad overview of the theory of the 12 main categories of separation techniques Volumes 2-4 Level 2 expand coverage with detailed theoretical and technical descriptions of particular techniques The remaining Volumes 5-9 Level 3 cover applications of these techniques from the micro to the macro and from the analytical laboratory bench to large scale industrial processes The last volume consists mainly of the index *McGraw-Hill Yearbook of Science and Technology*, 1988 *Advances in Food Extrusion Technology* Medeni Maskan, Aylin Altan, 2011-10-20

A fresh view of the state of the art *Advances in Food Extrusion Technology* focuses on extruder selection extrudate development quality parameters and troubleshooting in the 21st century extrusion process In particular the book Introduces the history nomenclature and working principles of extrusion technology Presents an overview of various types of extruders as well as parts and components of an extruder for design considerations Discusses extruder selection and design fluid flow problem with different types of raw materials and heat transfer and viscous energy dissipation with advantages and limitations for particular cases Emphasizes recent research while providing an overview of trends previously reported in the literature Covers the coinjection of food substances into an extruder die with the objective of creating defined colored patterns adding internal flavors and achieving other food injection applications into cereal based extruded products Describes thermal and nonthermal extrusion of protein products Discussing the influence of design and raw materials on extruder performance and nutritional value this book covers current and developing products from cereal based snacks to pet food In addition to the usual benefits of heat processing extrusion offers the possibility of modifying and expanding the functional properties of food ingredients Designed for both the active and future food scientist this book is an exciting addition to a creative and ever evolving field **Encyclopedia of Life Support Systems** Gustavo V. Barbosa-Cánovas, 2005

With an increasing global population developing efficient methods for the mass production of food supplies has become crucial Food engineering provides a vital link between primary food production and final consumption As part of the online Encyclopedia of Life Support Systems EOLSS Food Engineering is a multi author work that provides a rich source of

information on the fundamental aspects of food processing preservation production and consumption It discusses the basics underlying food transformation from both the standpoint of food technology and food engineering This publication is essential reading for educators university students professional practitioners and decision makers at all levels **ASEE ...**

Profiles of Engineering & Engineering Technology Colleges ,1998 **Food Australia** ,1996 **Agrindex** ,1995

Bibliography of Agriculture ,1976 Extruders in Food Applications Mian N. Riaz,2000-02-01 The result of years of experience by experts in extrusion technology Extruders in Food Applications brings together practical experience and in depth knowledge of extrusion cooking technology The book summarizes basic considerations for the application of extrusion technology to food industry processes and focuses on the types of extruders available for a growing number of food applications Chapters compare and describe the types of extruders and their functions and applications providing a wealth of information This is a valuable resource for the technical and practical application of extrusion and will be useful for the selection of the proper equipment for this technology **The 4th Asia Conference on Material and Manufacturing**

Technology and the 6th International Conference on Nanomaterials and Biomaterials Steven Y. Liang,Zongjin Li,2023-07-17 Selected peer reviewed extended articles based on abstracts presented at the 4th Asia Conference on Material and Manufacturing Technology ACMMT 2022 and the 6th International Conference on Nanomaterials and Biomaterials ICNB 2022 Aggregated Book *Biotechnology Progress* ,1989 Research Report Rutgers University. College of Engineering,1990 Biomass Extrusion and Reaction Technologies Ali Ayoub,Lucian A. Lucia,2018

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