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This book is about important relevant recent research topics in sustainable aquaculture practices. A critical assessment of the sustainable fishing methods and the aspect of sustainable aquaculture feed is presented in this volume. A special focus has been given to socio-economic and environmental assessment of aquaculture practices and analysis of carbon footprint under an intensive aquaculture regime. Aquaponics as a niche for sustainable modern aquaculture has been highlighted.

The effect of use of pharmaceuticals to prevent fish disease on the surrounding marine environment is an emerging area of concern, and a critical discussion on this aspect is included in the book. The spread of organic waste and nutrients released by fish farms to natural water bodies has raised considerable concerns. Therefore the methods to prevent their dispersion and removal (treatment) have been comprehensively covered in this book. This book is an essential read for academician, researchers, and policy makers in the field of aquaculture. The production of animal feed increasingly relies on the global acquisition of feed material, increasing the risk of chemical and microbiological contaminants being transferred into food-producing animals. Animal feed contamination provides a comprehensive overview of recent research into animal feed contaminants and their negative effects on both animal and human health. Part one focuses on the contamination of feeds and fodder by microorganisms and animal by-products. Analysis of contamination by persistent organic pollutants and toxic metals follows in part two, before the problem of natural toxins is considered in part three. Veterinary medicinal products as contaminants are explored in part four, along with a discussion of the use of antimicrobials in animal feed. Part five goes on to highlight the risk from emerging technologies. Finally, part six explores feed safety and quality management by considering the safe supply and management of animal feed, the process of sampling for contaminant analysis, and the GMP+ feed safety assurance scheme. With its distinguished editor and international team of expert contributors, Animal feed contamination is an indispensable reference work for all those responsible for food safety control in the food and feed industries, as well as a key source for researchers in this area. Provides a comprehensive review of research into animal feed contaminants and their negative effects on both animal and human health Examines the contamination of feeds and fodder by microorganisms and animal by-products Analyses contamination by persistant organic pollutants, toxic metals and natural toxins This book explores the importance of good nutrition in ensuring an adequate standard of welfare for farm animals. It is often not realized that farm animals can suffer when they are fed unsuitable diets, which may be because these diets are more economic or the farmer does not know how to rectify poor nutrition. This book reveals how to recognize and deal with feeding problems in farm animals, when the animal's behaviour is indicating a deficiency, through oral stereotypies for example. Feeding livestock in emergency situations can present special challenges, and the availability of clean and potable water, one of the essential components of life, can also be an unrecognized problem for many farm animals. Feeding farm animals effectively is rarely recognized for the major welfare issue that it is. We may assume that animals in intensive husbandry conditions have adequate feed, yet it is often too concentrated and designed primarily to immediately maximize production from the animals, in the form of growth, milk yield or reproduction. In extensive rangeland conditions adequate feed supply also cannot be assured, potentially leading to undernutrition with serious consequences for the health and even survival of livestock. This book will provide a much-needed review of the relationships between nutrition and the welfare of farm animals. 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) This Special Issue presents high-quality research papers as well as review articles addressing recent advances in the use of marine bioactives in animal nutrition. The marine environment constitutes a relatively untapped source of biologically active compounds that can be applied in various areas, such as improvement of animal performance, health maintenance, and disease prevention. Numerous marine-based compounds isolated from marine organisms (especially seaweeds) have diverse biological activities, including antioxidative, anti-inflammatory, antibacterial, antifungal, and antiviral activities that can be beneficial to animal health. Additionally, the application of marine bioactives as feed additives can increase the nutritional value of products of animal origin. In this Special Issue, the main attention was focused on seaweeds and their application in poultry (laying hen and broiler chickens) and pig feed. The suitable processing of marine resources required for their optimal use as feed/feed additives was underlined. The contained publications present scientific evidence for the use of various seaweeds as feed additives that improve health (enhanced immunity, prebiotic effect), growth performance, and production. Inclusion of this unconventional material in animal nutrition can enrich products with active compounds, such as micro- and

macroelements, polyunsaturated fatty acids, and pigments which are beneficial for consumers. Considering subjects as diverse yet interrelated as the earth's water resources, renewable energy sources, climate change, the demise of natural diversity, overpopulation, and malnutrition, this book collects and accessibly presents the most up-to-date research on subjects of major global concern from twelve leading scientists. This book presents a 360-degree picture of the world of insects and explores how their existence affects our lives: the "good, bad, and ugly" aspects of their interactions with humankind. It provides a lucid introductory text for beginning undergraduate students in the life sciences, particularly those pursuing beginner courses in entomology, agriculture, and botany. Encyclopedia of Renewable and Sustainable Materials provides a comprehensive overview, covering research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO2) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials The trade in live and dead animals and animal parts is a significant aspect of the global economy, but economic considerations are inevitably at odds with optimal animal welfare. Providing a snapshot of the current situation, this book discusses the background to modern international trade, welfare, and the environmental, economic and cultural issues. Covering farm, zoo and sport animals as well as the pet industry, the author draws together the competing interests and issues involved. Critically examining the overall ethics of the current situation and future of animal trade, he considers it within the context of food security, climate change, cultural sensitivities and consumer opinion. Proteins: Sustainable Source, Processing and Applications addresses sustainable proteins, with an emphasis on proteins of animal origin, plant-based and insect proteins, microalgal single cell proteins, extraction, production, the stability and bioengineering of proteins, food applications (e.g. encapsulation, films and coatings), consumer behavior and sustainable consumption. Written in a scientific manner to meet the needs of chemists, food scientists, technologists, new product developers and academics, this book addresses the health effects and properties of proteins, highlights sustainable sources, processes and consumption models, and analyzes the potentiality of already commercialized processes and products. This book is an integral resource that supports the current applications of proteins in the food industry, along with those that are currently under development. Supports the current applications of proteins in the food industry, along with those that are under development Connects the properties and health effects of proteins with sustainable sources, recovery procedures, stability and encapsulation Explores industrial applications that are affected by aforementioned aspects Aflatoxins - Biochemistry and Molecular Biology is a book that has been thought to present the most significant advances in these disciplines focused on the knowledge of such toxins. All authors, who supported the excellent work showed in every chapter of this book, are placed at the frontier of knowledge on this subject, thus, this book will be obligated reference to issue upon its publication. Finally, this book has been published in an attempt to present a written forum for researchers and teachers interested in the subject, having a current picture in this field of research about these interesting and intriguing toxins. Low water activity (aw) and dried foods such as dried dairy and meat products, grain-based and dried ready-to-eat cereal products, powdered infant formula, peanut and nut pastes, as well as flours and meals have increasingly been associated with product recalls and foodborne outbreaks due to contamination by pathogens such as Salmonella spp. and enterohemorrhagic E. coli. In particular, recent foodborne outbreaks and product recalls related to Salmonella-contaminated spices have raised the level of public health concern for spices as agents of foodborne illnesses. Presently, most spices are grown outside the U.S., mainly in 8 countries: India, Indonesia, China, Brazil, Peru, Madagascar, Mexico and Vietnam. Many of these countries are under-developed and spices are harvested and stored with little heed to sanitation. The FDA has regulatory oversight of spices in the United States; however, the agency's control is largely limited to enforcing regulatory compliance through sampling and testing only after imported foodstuffs have crossed the U.S. border. Unfortunately, statistical sampling plans are inefficient tools for ensuring total food safety. As a result, the development and use of decontamination treatments is key. This book provides an understanding of the microbial challenges to the safety of low aw foods, and a historic backdrop to the paradigm shift now highlighting low aw foods as vehicles for foodborne pathogens. Up-to-date facts and figures of foodborne illness outbreaks and product recalls are included. Special attention is given to the uncanny ability of Salmonella to persist under dry conditions in food processing plants and foods. A section is dedicated specifically to processing plant investigations, providing practical approaches to determining sources of persistent bacterial strains in the industrial food processing environment. Readers are guided through dry cleaning, wet cleaning and alternatives to processing plant hygiene and sanitation. Separate chapters are devoted to low aw food commodities of interest including spices, dried dairy-based products, low aw meat products, dried

ready-to-eat cereal products, powdered infant formula, nuts and nut pastes, flours and meals, chocolate and confectionary, dried teas and herbs, and pet foods. The book provides regulatory testing guidelines and recommendations as well as guidance through methodological and sampling challenges to testing spices and low aw foods for the presence of foodborne pathogens. Chapters also address decontamination processes for low aw foods, including heat, steam, irradiation, microwave, and alternative energy-based treatments. This new book, Food Process Engineering and Quality Assurance, provides an abundance of valuable new research and studies in novel technologies used in food processing and quality assurance issues of food. The 750-page book gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. The food process related application of engineering technology involves interdisciplinary teamwork, which, in addition to the expertise of interdisciplinary engineers, draws on that of food technologists, microbiologists, chemists, mechanical engineers, biochemists, geneticists, and others. The processes and methods described in the book are applicable to many areas of the food industry, including drying, milling, extrusion, refrigeration, heat and mass transfer, membrane-based separation, concentration, centrifugation, fluid flow and blending, powder and bulk-solids mixing, pneumatic conveying, and process modeling, monitoring, and control. Food process engineering know-how can be credited with improving the conversion of raw foodstuffs into safe consumer products of the highest possible quality. This book looks at advanced materials and techniques used for, among other things, chemical and heat sterilization, advanced packaging, and monitoring and control, which are essential to the highly automated facilities for the high-throughput production of safe food products. With contributions from prominent scientists from around the world, this volume provides an abundance of valuable new research and studies on novel technologies used in food processing and quality assurance issues. It gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. Special emphasis is given to the processing of fish, candelilla, dairy, and bakery products. Rapid detection of pathogens and toxins and application of nanotechnology in ensuring food safety are also emphasized. Key features: • Presents recent research development with applications • Discusses new technology and processes in food process engineering • Provides several chapters on candelilla (which is frequently used as a food additive but can also be used in cosmetics, drugs, etc.), covering its characteristics, common uses, geographical distribution, and more Incorporating research chapters from academic authors around the world, this book focuses on the most recent scientific advances in understanding phytate; both IP6 and its esters. It examines phytate degradation patterns in the gastrointestinal tract, and investigates the relevance of gut microbiome and endogenous phosphatases on phytate breakdown, as well as regulation and functions of inositol diphosphates IP3, IP4, and IP7, IP8. It also identifies recommendations for formulating for minerals and amino acids in the presence of phytate, including the effects of phytase on protein bioavailability, and the impact of digestible Ca and P in both swine and poultry. This leading science and research is coupled with real-world pragmatism, including a focus on what industry stakeholders are currently doing to counter dietary phytate, and an overview of the role of nutrition in respect of bone health, meat quality, welfare, and antibiotic free production. As such, the content is relevant for scientists, nutritionists and producers alike. The overall aim of the book is to provide a broad synthesis of the major supply and demand drivers of the rapid expansion of oil crops in the tropics; its economic, social, and environmental impacts; and the future outlook to 2050. After introducing the dramatic surge in oil crops, chapters provide a comparative perspective from different producing regions for two of the world's most important crops, oil palm and soybeans in the tropics. The following chapters examine the drivers of demand of vegetable oils for food, animal feed, and biodiesel and introduce the reader to price formation in vegetable oil markets and the role of trade in linking consumers across the world to distant producers in a handful of exporting countries. The remaining chapters review evidence on the economic, social, and environmental impacts of the oil crop revolution in the tropics. While both economic benefits and social and environmental costs have been huge, the outlook is for reduced trade-offs and more sustainable outcomes as the oil crop revolution slows and the global, national, and local communities converge on ways to better managed land use changes and land rights. A clear illustration of the important role of aquaculture in supporting food security, livelihoods, and economic development around the world This new edition of Aquaculture: Farming Aquatic Animals and Plants covers important aspects of the culture of fish, shellfish, and algae in freshwater and marine environments. Subject areas covered include principles of aquaculture, water quality, environmental impacts of aquaculture, desert aquaculture, reproduction, life cycles and growth, genetics and stock improvement, nutrition and feed production, diseases, vaccination, post-harvest technology, economics and marketing, and future developments of aquaculture. Separate chapters also cover the culture of algae, carps, salmonids, tilapias, catfish, marine and brackish fishes, soft-shelled turtles, barramundi, marine shrimp, mitten crabs, and other decapod crustaceans, bivalves, gastropods, and ornamental species. This edition also provides greater coverage of aquaculture in China, reflecting the country's importance in the global scene. Providing core scientific and commercially useful information, and written by 35 eminent international authors, this expanded and fully updated Third Edition of Aquaculture is essential reading for all students and professionals studying and working in aquaculture. Fish farmers, hatchery managers, and those in aquaculture support and supply industries, such as feed manufacturing, will find an abundance of commercially useful information

within this important and now established book. Describes the multitude of developments that have occurred within the aquaculture field over the last 15 years Includes a major revision of production statistics and trends, discussion of technical developments, and revised and extended coverage provided by broader international authorship Brings together 35 internationally recognized contributors, including a number of new contributors Aquaculture: Farming Aquatic Animals and Plants, Third Edition is a recommended text for students of the subject and a concise reference for those working in or entering into the industry. The Story of the Fly explores how a humble insect, with its fascinating history and manifold talents, holds the answer to profitably solving some of the most significant environmental challenges we face today. This book offers unique insight into an extraordinary insect that most of us take for granted. It presents real-world examples of how businesses are learning from, working with, and industrialising the fly – from space exploration to waste recycling. Jason Drew has extensively written and spoken about the notion of environmental capitalism. Alongside his team of scientists, engineers, and enthusiastic business minds, Jason has spent over a decade developing the science, technology and resulting businesses explored in this book. What started as a wild idea in a tractor shed on his farm in South Africa has since grown into a multinational world-leading insect technology company with staff in 11 countries. Most recently, AgriProtein was named one of Time magazine's 50 Genius Companies – businesses that are working to reinvent the future. The Story of the Fly is an insightful, easy-to-read book containing a positive message about how environmentalism and business can work together to provide long-term, commercially viable and environmentally beneficial solutions. It aims is to inspire business leaders to act now and harness the power of nature to bring about a more sustainable and profitable future. Let's get busy repairing the future. An inspiring entrepreneur and philanthropist describes his do-it-yourself-style inventions, which have included a prosthetic hand made on a 3D printer for a boy in the Sudan and a tracking device that turns eye movements into an onscreen cursor. 50,000 first printing [illegible] *Seaweed Sustainability: Food and Non-Food Applications is the only evidence-based resource that offers an abundance of information on the applications of seaweed as a solution to meet an increasing global demand for sustainable food source. The book uncovers seaweed potential and describes the various sources of seaweed, the role of seaweeds as a sustainable source for human food and animal feeds, and the role of seaweed farming for sustainability. In addition to harvesting and processing information, the book discusses the benefits of seaweed in human nutrition and its nutraceutical properties. Offers different perspectives by presenting examples of commercial utilization of wild-harvested or cultivated algae, marine and freshwater seaweeds Discusses seasonal and cultivar variations in seaweeds for a better understanding of their implications in commercial applications Includes a wide range of micro and macro algae for food and feed production and provides perspectives on seaweed as a potential energy source Poultry and pig nutrition: challenges of the 21st century focuses on the important challenges animal production faces in the light of increasing global feed scarcity, climate change and improvements in animal welfare. Animal nutrition plays a critical role in providing answers to these 21st century challenges. Internationally leading authorities in nutrition and nutrition-related disciplines provide their views and solutions. New research areas are discussed and the current gaps in our knowledge are identified. Among the topics discussed are the use of microbes for natural solutions, the importance of individual feed intake determination, technological treatments of feed ingredients, and advances in modelling. In addition, authors provide their insights on the effects of environment/housing on animal functioning and the impact of climate change on the mycotoxin content of feed ingredients as well as the importance of pro- and antioxidant balance in animals. The increasing global demand for feed will increase the search for alternative feed ingredients especially new protein sources while for an environmentally sustainable human diet, life cycle assessment needs to be combined with other modelling techniques that address environmental impacts of dietary choices at the (inter)national level. Future challenges require new solutions and innovations, and this book contains a collection of ideas for our 21st century challenges. The marine environment accounts for most of the biodiversity on our planet, while offering a huge potential for the benefit and wellbeing of mankind. Its extensive resources already constitute the basis of many economic activities – but many more are expected in coming years. This book covers current knowledge on uses of marine algae to obtain bulk and fine chemicals, coupled with optimization of the underlying production and purification processes. Major gaps and potential opportunities in this field are discussed in a critical manner. The currrent trends pertaining to marine macro- and microalgae are explained in a simple and understandable writing style. This book covers a wide variety of topics, and as such it will be appropriate as both student text and reference for advances researchers in the field. Come sfruttare i cambiamenti strutturali che riguardano l'economia globale. Questo libro accompagna il lettore nella comprensione dei megatrend che guideranno lo sviluppo economico e sociale dei prossimi decenni. Sulla base di queste premesse sono descritti una ventina di scenari d'investimento che sviluppano le tematiche demografiche, tecnologiche, ambientali, sociali e geo-strategiche. Ogni scenario è accompagnato dalla costruzione di un portafoglio teorico composto da aziende quotate e startup innovative, oltre che da strumenti del risparmio gestito come ETF, certificati e fondi. Questi scenari possono essere facilmente replicati dal*

lettore che avrà quindi a disposizione per le sue analisi oltre 400 strumenti finanziari. Il libro è l'occasione per gettare uno sguardo su come sta cambiando il mondo tra riscaldamento globale, sovrappopolamento, scarsità di risorse, il crescente ruolo dell'Est Asiatico, l'applicazione massiva delle tecnologie digitali, l'ingresso della robotica e dell'Intelligenza Artificiale nella società e nel lavoro: tutti megatrend che rappresentano nuove sfide per l'individuo, l'economia, la società e il pianeta. From alpha-galactosidases to xylanases, Enzymes in Farm Animal Nutrition provides a comprehensive guide to all aspects associated with enzyme-supplemented animal feeds. It details the history and size of the feed enzyme market, before describing how feed enzymes are manufactured and employed in monogastric, aqua and ruminant diets. This new edition explores considerable advances such as the use of enzymes in fish and shrimp diets, new understanding of how phytases function in the animal, NSPase research and enzymes' extended use in ruminant markets. Covering biochemistry, enzymology and characteristics relevant to animal feed use, this book forms a valuable resource for academics and students of animal nutrition and production, as well as professionals in the animal feed industry. New Aspects of Meat Quality: From Genes to Ethics provides a reference source that covers what constitutes meat quality in the minds of consumers, marketers, and producers in the 21st century, using the same scientific authority as texts on traditional meat quality values. Traditional measures in meat quality, such as texture, waterholding, color, flavor/aroma, safety/microbiology, and processing characteristics are still important, however, additional quality attributes now have huge importance in the purchasing intentions of consumers in many countries. These include, amongst others, animal welfare, the impacts of meat on human health, quality assurance schemes, organic/free range, ethical meat production, and the desirability of genetically modified organisms. The book is divided into three main sections, with the first section covering the developments in our understanding of how muscle structure affects the eating qualities of cooked meat. The second section highlights recently developed techniques for measuring, predicting, and producing meat quality, and how these new techniques help us minimize variability in eating quality and/or maximize value. The final section identifies the current qualities of consumer and public perceptions, and what is sustainable, ethical, desirable, and healthy in meat production and consumption. Brings together top researchers in the field to provide a comprehensive overview of the new elements of meat quality Provides a reference source that covers the new aspects of meat quality with the same scientific authority as texts on traditional meat quality values"/li> Edited by an extremely well respected expert in the field who is an Associate Editor of the journal Meat Science (published by Elsevier), the largest global journal within this area Seaweeds are known for their rich bioactive compounds, which promote health in human beings and are good for the ecosystem as well. They are also natural resources that are a major source of raw material for different industries. There are still undiscovered and unexploited compounds synthesized by seaweeds that may have potential applications in the pharmaceutical, nutraceutical, food, and cosmetics industries. This book serves as a comprehensive knowledge source for the predominant roles of seaweeds in various sectors, particularly in the areas of health, environment, and agriculture. It explores the diverse biodiversity aspects of seaweeds and their derivatives. The book critically reviews the present industrial challenges to investigate the novel compounds synthesized by seaweeds and their unique characteristics and benefits. The volume covers the various biodiversity attributes of tropical seaweeds, their cultivation and bioactive compounds, and the diverse agricultural and biomedical applications of new seaweed derivatives. The authors also discuss the current challenges, emerging markets, and latest developments in extracting the useful biomolecules from seaweeds as well as the role of seaweeds in food security and environmental mitigation. With chapters written by experts and professionals in the field, this volume, Seaweed Biotechnology: Biodiversity and Biotechnology of Seaweeds and Their Applications, provides a deep understanding of the biodiversity of seaweeds around the world and their industrial, biomedical, and environmental applications. Adhesive bonding plays an increasing role in the forest product industry and is a key factor for efficiently utilizing timber and other lignocellulosic resources. As synthetic wood adhesives are mostly derived from depleting petrochemical resources and have caused increasing environmental concern, natural product and byproduct-derived adhesives have attracted much attention in the last decades. Although adhesives made from plant and animal sources have been in existence since ancient times, increased knowledge of their chemistry and improved technical formulation of their preparation are still needed to promote their broader industrial applications. The primary goals of this book are to (1) synthesize the fundamental knowledge and latest research on bio-based adhesives from a remarkable range of natural products and byproducts, (2) identify need areas and provide directions of future bio-based adhesive research, and (3) help integrating research findings in practical adhesive application for maximal benefits. This book covers information on a variety of natural products and byproducts and the latest research on formulation, testing and improvement of the relevant adhesives in fifteen chapters written by an international group of accomplished contributors. This book will serve as a valuable reference source for university faculty, graduate students, research scientists, agricultural and wood engineers, international organization advocators and government agency regulators who work and deal with enhanced utilization of agricultural and forest products and byproducts. Feed and Feeding Practices in Aquaculture, Second Edition continues to play an important role in the successful production of fish and other seafood for human consumption. This is an excellent resource for understanding the key properties of feeds for aquaculture, advances in feed formulation and manufacturing

techniques, and the practicalities of feeding systems and strategies. Many new updates have been integrated to reflect recent advances within the market, including special emphasis on up-and-coming trends and new technologies on monitoring fish feeding patterns, making this book useful for anyone working in R&D in the production of feed, as well as nutritionists, farm owners and technicians, and academics/postgraduate students with a research interest in the area. Includes new research information on using feed to enhance the sensory qualities of fish Presents the latest research in aquafeed and processing Provides the latest information on regulatory issues regarding feed and fish health Food production and consumption processes are largely governed via control mechanisms that affect food accessibility and environmental efficiency. Food resource marginalization, inequality, and deleterious consumption urgently require new governance and developmental systems that will provide food security and create consumption patterns that protect the natural environment and food resources. Global Food Politics and Approaches to Sustainable Consumption: Emerging Research and Opportunities is an essential reference source that discusses the challenges and solutions of food security and consumption control. Food politics can be linked to persistent challenges of inequitable access, food resource inefficiency, and control and consumption, which form part of the local development realities that can address global sustainable development. While highlighting topics such as rural agriculture, capitalism, and food chain management, this publication is ideally designed for policymakers, sustainable developers, politicians, ecologists, environmentalists, corporate executives, farmers, and academicians seeking current research on the policies and modalities of food efficiency and equality. This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change. Aquafeed Formulation is the only resource that provides summaries with examples and formulation techniques specifically to meet the needs of anyone in the aquaculture industry. As feed is the largest single cost item in aquaculture production, and formulating aquaculture feed requires many combinations of several ingredients and nutrient requirements, this book takes a clear-and -concise approach, providing essential information on formulation and covering relevant available software, feed nutrients, and additives such as enzymes and phytase and conjugated fatty acids, as well as best industry practices to improve aquafeed production. Users will find this to be a one-stop resource for anyone interested or involved in, the global aquaculture industry. Includes the latest software evaluation for calculating protein and amino acid sources, trace minerals, and vitamins for aquaculture diets Provides essential information on formulation, covering feed nutrients and additives such as enzymes and phytase and conjugated fatty acids Presents factors affecting nutrient recommendations for aquaculture diets and nutritional effects on aquaculture nutrient excretion and water quality Covers a broad range of techniques to understand the nutrient recommendations in the NRC guide This book examines the successful private, public and civil society models of agriculture value chains in India and addresses relevant challenges and opportunities to improve their efficiency and inclusiveness. It promotes the value-chain approach as a tool to improve access to finance for small holder farmers and discusses the possible structure of and regulatory framework for the 'National Common Agricultural Market'— a term that featured in the Indian Finance Minister's 2014–15 budget speech, and which is aimed towards standardizing and improving transparency in agricultural trade practices across states under a single licensing system. The book deliberates on the potential of developing innovative financial instruments into the value chain framework by supporting tripartite agreements between producers, lead firms and financial institutions. Its fourteen chapters are divided into three parts—Agriculture Value Chain Financing: Theoretical Framework, Agriculture Value Chain Financing in Cases of Select Commodities; and Institutional Framework for Agriculture Value Chain Financing. Since the concept of value chain financing is being considered as a future policy agenda, the book is of great interest to corporations dealing with agricultural inputs and outputs; commercial, regional, rural and cooperative banks; policy makers; academicians and NGOs.

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