

Understanding Food Science Andtechnology

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This is one of the easiest to understand food science and technology books that I have bought. The pages are a bit thin but that is probably how the price has been kept so low. The techical information is all there but it is presented in an easy to understand format. Chemical structures are clear and simple to follow and jargon free.

Understanding Food Science and Technology: Amazon.co.uk ...

1. Introduction to Food Science. 2. Food Commodities and Composition. 3. Human Nutrition and Foods. 4. Food Chemistry: Functional Groups And Properties: Water And Acids. 5. Food Chemistry II: Carbohydrates, Lipids and Proteins. 6. Food Chemistry III: Color, Flavor and Texture. 7. Food Additives and Dietary Supplements. 8.

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A comprehensive introductory level text that provides thorough up to date coverage of a broad range of topics in food science and technology.

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

The Second Edition of this popular textbook has benefited from several years of exposure to both teachers and students. Based on their own experiences as well as those of others, the authors have reorganized, added, and updated this work to meet the needs of the current curriculum. As with the first edition the goal is to introduce the beginning student to the field of food science and technology. Thus, the book discusses briefly the complex of basic sciences fundamental to food processing and preservation as well as the application of these sciences to the technology of providing the consumer with food products that are at once appealing to the eye, pleasing to the palate, and nutritious to the human organism. Introduction to Food Science and Technology is set in the world in which it operates; it contains discussions of historical development, the current world food situation, the safety regulations and laws that circumscribe the field, and the careers that it offers.

Food Science and Technology: Trends and Future Prospects presents different aspects of food science i.e., food microbiology, food chemistry, nutrition, process engineering that should be applied for selection, preservation, processing, packaging, and distribution of quality food. The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry. The chapters are written by leading researchers, lecturers, and experts in food chemistry, food microbiology, biotechnology, nutrition, and management. This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals, food entrepreneurs, and farmers.

A comprehensive introductory level text that provides thorough up to date coverage of a broad range of topics in food science and technology.

This book comprehensively reviews research on new developments in all areas of food chemistry/science and technology. It covers topics such as food safety objectives, risk assessment, quality assurance and control, good manufacturing practices, food process systems design and control and rapid methods of analysis and detection, as well as sensor technology, environmental control and safety. The book focuses on food chemistry and examines chemical and mechanical modifications to generate novel properties, functions, and applications.

Fundamentals of Food Biotechnology Food biotechnology is the application of modern biotechnological techniques to the manufacture and processing of food; for example, through fermentation of food (which is the oldest biotechnological process) and food additives, as well as plant and animal cell cultures. New developments in fermentation and enzyme technological processes, molecular thermodynamics, genetic engineering, protein engineering, metabolic engineering, bioengineering, and processes involving monoclonal antibodies, nanobiotechnology and quorum sensing have introduced exciting new dimensions to food biotechnology, a burgeoning field that transcends many scientific disciplines. Fundamentals of Food Biotechnology, 2nd edition is based on the author's 25 years of experience in teaching on a food biotechnology course at McGill University in Canada. The book will appeal to professional food scientists as well as graduate and advanced undergraduate students by addressing the latest exciting food biotechnology research in areas such as genetically modified foods (GMOs), bioenergy, bioplastics, functional foods/ nutraceuticals, nanobiotechnology, quorum sensing and quenching. In addition, cloning techniques for bacterial and yeast enzymes are included in a "New Trends and Tools" section and selected references, questions, and answers appear at the end of each chapter. This new edition has been comprehensively rewritten and restructured to reflect the new technologies, products, and trends that have emerged since the original book. Many new aspects highlight the short- and longer-term commercial potential of food biotechnology. Food Biochemistry and Food Processing, 2nd Edition Edited by Benjamin K. Simpson, Leo M.L. Nollet, Fidel Toldra, et al. ISBN 978-0-8138-0874-1 Food Processing: Principles and Applications, 2nd Edition Edited by Stephanie Clark (Editor), Stephanie Jung, Buddhi Lamsal ISBN 978-0-470-67114-6

The shelf-life of a product is critical in determining both its quality and profitability. This important collection reviews the key factors in determining shelf-life and how it can be measured. Part one examines the factors affecting shelf-life and spoilage, including individual chapters on the major types of food spoilage, the role of moisture and temperature, spoilage yeasts, the Maillard reaction and the factors underlying lipid oxidation. Part two addresses the best ways of measuring the shelf-life of foods, with chapters on modelling food spoilage, measuring and modelling glass transition, detecting spoilage yeasts, measuring lipid oxidation, the design and validation of shelf-life tests and the use of accelerated shelf-life tests. Understanding and measuring the shelf-life of food is an important reference for all those concerned with extending the shelf-life of food. Reviews the key factors in determining shelf-life and how they can be measured Examines the importance of the shelf-life of a product in determining its quality and profitability Brings together the leading international experts in the field

This book provides a comprehensive source of information on freezing and frozen storage of food. Initial chapters describe the freezing process and provide a fundamental understanding of the thermal and physical processes that occur during freezing. Experts in each stage of the frozen cold chain provide, within dedicated chapters, guidelines and advice on how to freeze food and maintain its quality during storage, transport, retail display and in the home. Individual chapters deal with specific aspects of freezing relevant to the main food commodities: meat, fish, fruit and vegetables. Legislation and new freezing processes are also covered. Frozen Food Science and Technology offers in-depth knowledge of current and emerging refrigeration technologies along the entire frozen food chain, enabling readers to optimise the quality of frozen food products. It is aimed at food scientists, technologists and engineers within the frozen food industry; frozen food retailers; and researchers and students of food science and technology.

Food Science and Technology: A Series of Monographs: Food Texture and Viscosity: Concept and Measurement focuses on the texture and viscosity of food and how these properties are measured. The publication first elaborates on texture, viscosity, and food, body-texture interactions, and principles of objective texture measurement. Topics include area and volume measuring instruments, chemical analysis, multiple variable instruments, soothing effect of mastication, reasons for masticating food, rheology and texture, and the rate of compression between the teeth. The book then examines the practice of objective texture measurement and viscosity and consistency, including the general equation for viscosity, methods for measuring viscosity, factors affecting viscosity, tensile testers, distance measuring measurements, and shear testing. The manuscript takes a look at the selection of a suitable test procedure and sensory methods of texture and viscosity measurement. Discussions focus on nonoral methods of sensory measurement; correlations between subjective and objective measurements; variations on the texture profile technique; and importance of sensory evaluation. The publication is a vital source of information for food experts and researchers interested in food texture and viscosity.

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