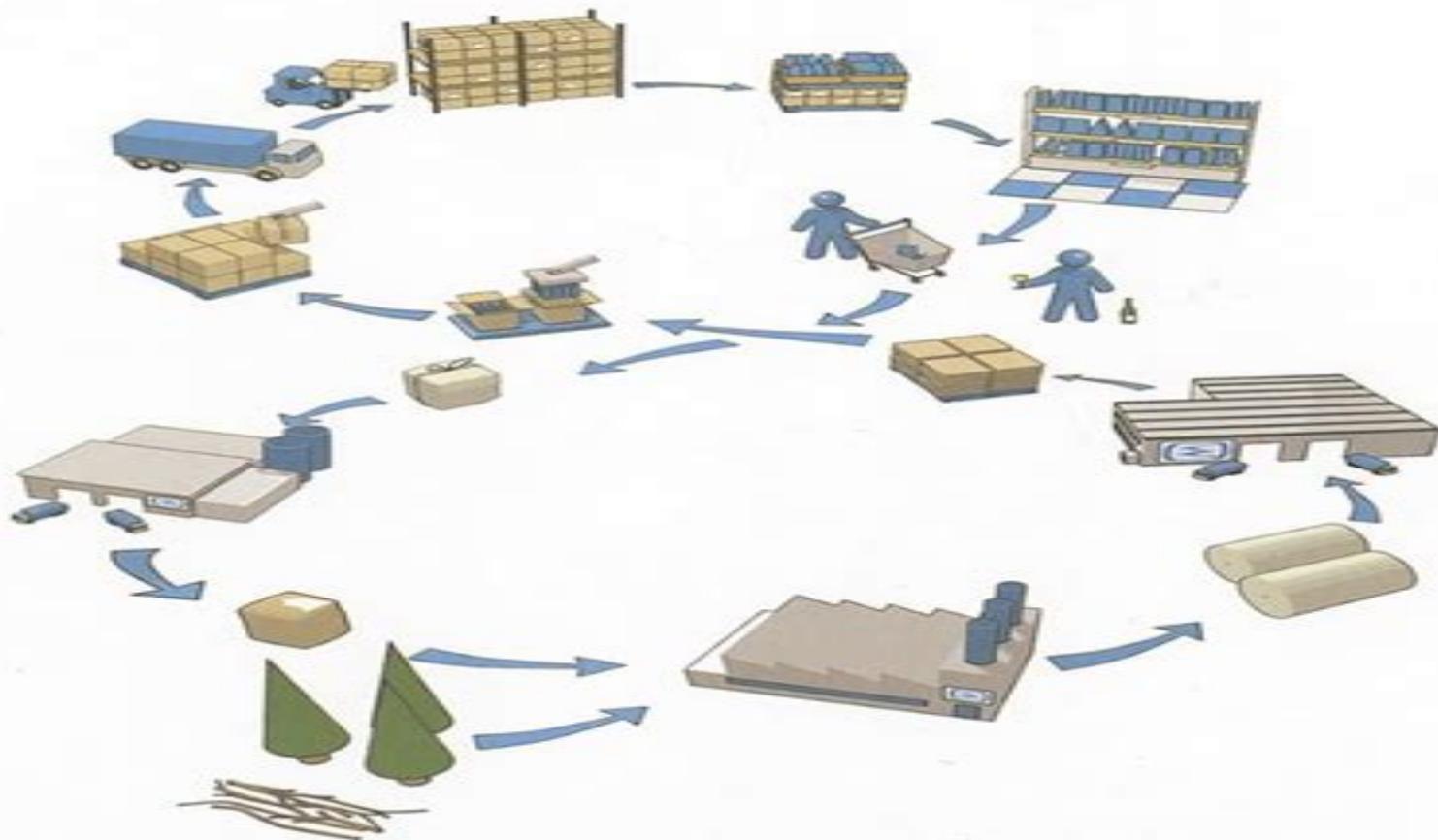


Handbook of Paper and Paperboard Packaging Technology

SECOND EDITION

Edited by Mark J. Kirwan



Handbook Of Paper And Paperboard Packaging Technology

Ensheng Dong



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Handbook of Paper and Paperboard Packaging Technology Mark J. Kirwan, 2013-02-04 The definitive industry reference on the paper and paperboard packaging sector Now in a fully revised and updated second edition this book discusses all the main types of packaging based on paper and paperboard It considers the raw materials the manufacture of paper and paperboard and the basic properties and features on which packaging made from these materials depends for its appearance and performance The manufacture of twelve types of paper and paperboard based packaging is described together with their end use applications and the packaging machinery involved The importance of pack design is stressed as well as how these materials offer packaging designers opportunities for imaginative and innovative design solutions Environmental factors including resource sustainability societal and waste management issues are addressed in a dedicated chapter The book is directed at readers based in companies which manufacture packaging grades of paper and paperboard companies involved in the design printing and production of packaging and companies which manufacture inks coatings adhesives and packaging machinery It will be essential reading for students of packaging technology and technologists working in food manufacturing who are users of paper and paperboard packaging products Praise for the First Edition This book is a valuable addition to the library of any forward looking company by providing in depth coverage of all aspects of packaging which involve the most ecologically acceptable material namely paper and paperboard International Journal of Dairy Technology a welcome contribution to a field where coverage was previously limited to subject specific books or to single chapters in textbooks on broader aspects of packaging technology Packaging Technology and Science *Cartons, Crates and Corrugated Board, Second Edition* Diana Twede, Susan E. M. Selke, Donatien-Pascal Kamdem, David Shires, 2014-12-22 New expanded second edition with key technical regulatory and marketing developments from the past 10 years in the packaging industry Covers the materials processes and design of virtually all paper and fiberboard packaging for end products displays storage and distribution New information on European and global standards selection criteria for paperboard as well as emerging sustainability initiatives Explains recent tests measurements and costs with ready to use calculations Ten years ago the first edition of *Cartons Crates and Corrugated Board* quickly became the standard reference book for wood and paper based packaging Endorsed by TAPPI and other professional societies and used as a textbook worldwide the book has now been extensively revised and updated by a team formed by the original authors and two additional authors While preserving the critical performance and design data of the previous edition this second expanded edition offers new information on the technologies tests and regulations impacting the paper and corrugated industries worldwide with a special focus on Europe and Japan New information has been added on tests and novel designs for folded cartons as well as expanded discussions of paperboard selection for specific applications emerging barrier packaging food contact and migration and the dynamics and opportunities of corrugated in distribution systems Recent developments on recycling and sustainability are also highlighted

Handbook of Food Process Design, 2 Volume Set Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

Handbook of Sustainability for the Food Sciences Rubén O. Morawicki, 2012-03-20 Many books on sustainability have been written in the last decade most of them dealing with agricultural systems communities and general business practices In contrast Handbook of Sustainability for the Food Sciences presents the concept of sustainability as it applies to the food supply chain from farm to fork but with a special emphasis on processing Structured in four sections Handbook of Sustainability for the Food Sciences first covers the basic concepts of environmental sustainability and provides a detailed account of all the impacts of the food supply chain Part two introduces the management principles of sustainability and the tools required to evaluate the environmental impacts of products and services as well as environmental claims and declarations Part three looks at ways to alleviate food chain environmental impacts and includes chapters on air emissions water and wastewater solid waste energy packaging and transportation The final part summarizes the concepts presented in the book and looks at the measures that will be required in the near future to guarantee long term sustainability of the food supply chain Handbook of Sustainability for the Food Sciences is aimed at food science professionals including food engineers food scientists product developers managers educators and decision makers It will also be of interest to students of food science

Food Packaging Gordon L. Robertson, 2016-04-19 This book presents an integrated approach to understanding the principles underlying food packaging and their applications This edition includes new and expanded coverage of biobased packaging and bionanocomposites nanotechnology applications including nanoclays metallization and atomic layer deposition shelf life design analysis and estimation safety and legislative aspects of packaging including public

interest in food contact materials such as BPA and phthalates life cycle assessment and sustainability A new chapter addresses food packaging closures and sealing systems including closures for plastic and composite containers and peelable seals

Functionalized Polymeric Materials in Agriculture and the Food Industry Ahmed Akelah, 2013-07-03 The purpose of this book will be to demonstrate 1 the newly developed method of using reactive functionalized materials in agriculture to solve the economic and public health problems associated with using conventional agrochemicals and 2 new technology aimed at achieving the greening of chemistry to meet appropriate environmental standards in both agriculture and industrial foodstuffs production More specifically the book will accomplish this goal by addressing 3 key issues in the field 1 the production of reactive functionalized materials with enhanced properties that offer a major opportunity to overcome the disadvantages of using traditional materials 2 the applications of functionalized materials in agriculture for the purpose of solving the economic and the environmental pollution problems associated with the uses of conventional agrochemicals and 3 the contribution of polymers in solving problems associated with conventional procedures of food growth and processing including those used in the dairy industry sugar and fruit juices beer and wine production nutritive and nonnutritive food additives and in food protection

Decontamination of Fresh and Minimally Processed Produce Vicente M. Gómez-López, 2012-02-13 Attempts to provide safer and higher quality fresh and minimally processed produce have given rise to a wide variety of decontamination methods each of which have been extensively researched in recent years *Decontamination of Fresh and Minimally Processed Produce* is the first book to provide a systematic view of the different types of decontaminants for fresh and minimally processed produce By describing the different effects microbiological sensory nutritional and toxicological of decontamination treatments a team of internationally respected authors reveals not only the impact of decontaminants on food safety but also on microbial spoilage vegetable physiology sensory quality nutritional and phytochemical content and shelf life Regulatory and toxicological issues are also addressed The book first examines how produce becomes contaminated the surface characteristics of produce related to bacterial attachment biofilm formation and resistance and sublethal damage and its implications for decontamination After reviewing how produce is washed and minimally processed the various decontamination methods are then explored in depth in terms of definition generation devices microbial inactivation mechanisms and effects on food safety Decontaminants covered include chlorine electrolyzed oxidizing water chlorine dioxide ozone hydrogen peroxide peroxyacetic acid essential oils and edible films and coatings Other decontamination methods addressed are biological strategies bacteriophages protective cultures bacteriocins and quorum sensing and physical methods mild heat continuous UV light ionizing radiation and various combinations of these methods through hurdle technology The book concludes with descriptions of post decontamination methods related to storage such as modified atmosphere packaging the cold chain and modeling tools for predicting microbial growth and inactivation The many methods and effects of decontamination are detailed enabling industry professionals to understand the

available state of the art methods and select the most suitable approach for their purposes The book serves as a compendium of information for food researchers and students of pre and postharvest technology food microbiology and food technology in general The structure of the book allows easy comparisons among methods and searching information by microorganism produce and quality traits

Paperboard Packaging Handbook of Materials, Machines and Methods for Converting and Packaging Patrick A. Toensmeier,1961 **Paper and Paperboard Packaging Technology** Mark J.

Kirwan,2008-04-15 This book discusses all the main types of packaging based on paper and paperboard It considers the raw materials and manufacture of paper and paperboard and the basic properties and features on which packaging made from these materials depends for its appearance and performance The manufacture of twelve types of paper and paperboard based packaging is described together with their end use applications and the packaging machinery involved The importance of pack design is stressed and how these materials offer packaging designers opportunities for imaginative and innovative design solutions Environmental and waste management issues are addressed in a separate chapter The book is directed at those joining companies which manufacture packaging grades of paper and paperboard companies involved in the design printing and production of packaging and companies which manufacture inks coatings adhesives and packaging machinery It

will be essential reading for students of packaging technology Faxon ... Librarians' Guide to Serials ,1985 Willing's Press Guide ,1996 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A Willing's Press Guide and Advertisers' Directory and Handbook ,2000 A Series of

Proposed Laboratory Exercises John Charles Dargis,1974 Basebook Predicasts, inc,1990 *American Book Publishing Record* ,2003 Properties of Paper William E. Scott,Stanley Trosset,1989 Explains the characteristics of paper that affect its suitability for various uses and how the manufacturing process and raw materials determine these characteristics

Business Publication Advertising Source ,2002-10 **Packaging Information Sources** Gwendolyn Jones,1967

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