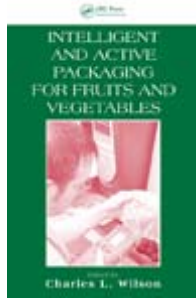


Intelligent and Active Packaging for Fruits and Vegetables

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- Offers an in-depth study of the latest packaging technologies to preserve the freshness of fruit and vegetable products
- Explains the use of RFID temperature monitoring, Application Specific Integrated Circuit (ASIC), and MAP atmospheric control
- Covers the regulatory implications of nanotechnology in active and intelligent packaging
- Features contributions from a diverse group of pioneers in the field

Recent nationwide recalls of spinach due to E. coli contamination and peanut butter due to Salmonella, make the emerging development of "active" and "intelligent" packaging crucial for consumer safety and quality assurance. Now that it is possible to make packaging that can detect and inform consumers of contamination, as well as prevent or reduce the growth of human foodborne pathogens, the food packaging and safety industry needs a comprehensive overview of the state-of-the-science and future directions of this widely important field.

Drawing on the research of a diverse group of scientists and pioneers in the field, Intelligent and Active Packaging for Fruits and Vegetables explores the new technology and applications used to bring fresh, safe, nutritious produce to the consumer. It explains Modified Atmosphere Packaging (MAP) and its use in packaging fruits and vegetables, as well as, fish and meat. It includes variations and advances on MAP such as high vapor-permeable films, and demonstrates modeling techniques to assist in the prediction and selection of packaging type. The book contains a chapter on the trends, opportunities, and challenges of RFID temperature monitoring in food packaging. It also considers the interaction between container and food product, as well as the use of non-toxic insect repellent plastics. There is a chapter on the regulatory implications of the use of nanotechnology in food packaging. Finally, the book discusses consumer perception, the specific needs of developing countries, and current implementation in Europe.

Explaining the very latest in packaging technology and opening areas for future research, Intelligent and Active Packaging for Fruits and Vegetables provides an excellent knowledge base from which to revolutionize the delivery of safe and nutritious food.

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