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Nota di contenuto	Role of Nanotechnology in Food Packaging -- Organic nano-packaging material for shelf life extension and quality retention of foodstuffs -- Inorganic Nanomaterials used in Packaging for Shelf Life Extension and Quality Retention of Food -- Composite Nano-Packaging Material for Shelf Life Extension and Quality Retention of Foodstuffs -- Nanotechnology in Food Packaging -- Nanotechnology in the fabrication of improved, active and smart packaging materials -- Ethical Issues and Safety Features of Nanomaterials in Food Packaging -- Challenges and regulatory aspects of nanomaterials in food products -- Toxicological aspects of nanomaterials in food packaging -- Detection Methods and Analysis of Nanomaterials in Food.

Sommario/riassunto

For researchers and food industry professionals seeking a comprehensive, fully up to date single source on nanotechnology in food packaging, this text provides all the needed information. The book begins with a chapter on the current state of nanotechnology and its use in food packaging and the industry as a whole, including current advances in methods and technology. Further chapters address organic nano packaging for shelf life and quality retention, the use of inorganic nanomaterials, biopolymeric nano packaging and composite nano packaging materials. Nanotechnology in Food Packaging focuses on the methods of synthesis for nano-based food packaging materials and the fabrication of improved, active and smart packaging materials. Ethical issues and safety features of nanomaterials are addressed, plus the main challenges and regulatory aspects of nanomaterials in food products. An important chapter looks to the future of nanotechnology in the food packaging industry. Toxicological aspects, detection methods and analysis of nanomaterials are also covered in full. With its wide scope and up to date information on technological advancements, this is the perfect source for those seeking knowledge on the use of nanotechnology in the food industry. .