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technologies in

MEMS

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MEMS

components

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technologies,

including ALD and

porous silicon

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Technology
world class MEMS
contributors from
around the globe,
this volume covers
materials selection
as well as the most
important process
steps in bulk
micromachining,
fulfilling the needs
of device design
engineers and
process or

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protect devices
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decrease package
size for dramatic

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reduction of
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Discusses
properties,
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crystals and
wafers Explains
the many
properties
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Technology
manufacturing,
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measuring (incl.
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techniques), and
multiscale
modeling methods
of MEMS
structures

This new edition of
Innovations in
Food Packaging
ensures that

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readers have the most current information on food packaging options, including active packaging, intelligent packaging, edible/biodegradable packaging, nanocomposites and other options for package

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design. Today's packaging not only contains and protects food, but where possible and appropriate, it can assist in inventory control, consumer education, increased market availability and shelf life, and even

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in ensuring the safety of the food product. As nanotechnology and other technologies have developed, new and important options for maximizing the role of packaging have emerged.

This book

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specifically examines the whole range of modern packaging options. It covers edible packaging based on carbohydrates, proteins, and lipids, antioxidative and antimicrobial packaging, and

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chemistry issues of food and food packaging, such as plasticization and polymer morphology.

Professionals involved in food safety and shelf life, as well as researchers and students of food science, will find

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Handbook of

Package

Engineering

Nanotechnology in the

Beverage industry:

Fundamentals and

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Applications looks at how nanotechnology is being used to enhance water quality, as well as how the properties of nanomaterials can be used to create different properties in both alcoholic and no-alcoholic drinks and enhance the biosafety of both drinks and their packaging. This is an important reference for

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materials scientists, engineers, food scientists and microbiologists who want to learn more about how nanotechnology is being used to enhance beverage products. As active packaging technology, nanotechnology can increase shelf-life and maintain the quality of

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beverages. In the field of water treatment, nanomaterials offer new routes to address challenges.

The value of the groceries purchases in the USA is over \$500 billion annually, most of which is accounted for by packaged foods. Plastic packaging of foods is not only ubiquitous in developed

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economies, but increasingly commonplace in the developing world, where plastic packaging is instrumental in decreasing the proportion of the food supply lost to spoilage. This new handbook is a combination of new material and updated chapters, chosen by Dr.

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Sina Ebnesajjad, from recently published books on this subject. Plastic Films in Food Packaging offers a practical handbook for engineers, scientists and managers working in the food packaging industry, providing a tailor-made package of science and engineering fundamentals, best

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practice techniques and guidance on new and emerging technologies. By covering materials, design, packaging processes, machinery and waste management together in one book, the authors enable the reader to take a lifecycle approach to food packaging. The Handbook addresses questions related to film

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grades, types of packages for different types of foods, packaging technologies, machinery and waste management.

Additionally the book provides a review of new and emerging technologies. Two chapters cover the development of barrier films for food

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packaging and the regulatory and safety aspects of food packaging. Essential information and practical guidance for engineers and scientists working at all stages of the food packaging lifecycle: from design through manufacture to recycling Includes key published material on plastic films in food

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packaging, updated specifically for this Handbook, and new material on the regulatory framework and safety aspects Coverage of materials and applications together in one handbook enables engineers and scientists to make informed design and manufacturing

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decisions

In the current market scenario, packaging provides the most important first point of contact by which a company presents its products to consumers. Though packaging has to perform functions such as product protection and preservation, it is now being accepted as a

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value addition process.

This compact textbook is designed primarily for the undergraduate students of printing technology and mechanical

engineering. The text introduces the concepts and techniques relevant to packaging of industrial, pharmaceutical and food products. It covers

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the package design concepts with emphasis on graphics and colours, as innovation in packaging is taking place at a rapid pace due to the competition among brands for shelf appeal and space.

Besides, it also discusses importance of glass as a packaging material, label types and their design, bulk

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packaging and test procedures on package to evaluate its worthiness in distribution and storage. In the second edition, the book has been updated wherever necessary. Chapter 7 on "Plastics and Speciality Packaging" has been completely overhauled and split to introduce a new chapter on

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"Package Finishing and Security (Chapter 8). Thus, in contrast to eight chapters of the previous edition, the book now comprises total nine chapters. Besides undergraduate students, this book will also be useful for diploma students of packaging, researchers and professionals in printing and packaging

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field. Key Features • A Case Study lends a practical orientation towards the subject of study. • Review questions, arranged in a graded manner, sharpen the analytical skills of the students. • Solved problems reinforce the understanding of the subject.

The multi-billion-dollar

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microsystem packaging business continues to play an increasingly important technical role in today's information industry. The packaging process—including design and manufacturing technologies—is the technical foundation upon which function chips are updated for

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use in application systems, and it is an important guarantee of the continued growth of technical content and value of information systems. Introduction to Microsystem Packaging Technology details the latest advances in this vital area, which involves microelectronics, optoelectronics, RF and

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wireless, MEMS, and related packaging and assembling technologies. It is purposefully written so that each chapter is relatively independent and the book systematically presents the widest possible overview of packaging knowledge. Elucidates the evolving world of packaging technologies

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for manufacturing The authors begin by introducing the fundamentals, history, and technical challenges of microsystems.

Addressing an array of design techniques for packaging and integration, they cover substrate and interconnection technologies, examples

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of device- and system-level packaging, and various MEMS packaging techniques. The book also discusses module assembly and optoelectronic packaging, reliability methodologies and analysis, and prospects for the evolution and future applications of microsystems packaging and

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associated environmental protection. With its research examples and targeted reference questions and answers to reinforce understanding, this text is ideal for researchers, engineers, and students involved in microelectronics and MEMS. It is also useful to those who are not

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directly engaged in packaging but require a solid understanding of the field and its associated technologies.

MEMS/MOEM

Packaging

Packaging Technology
and Engineering

A Handbook of Food
Packaging

LED Packaging for
Lighting Applications

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The Science and
Technology of
Flexible
Packaging:
Multilayer Films
from Resin and
Process to End
Use provides a
comprehensive
guide to the use
of plastic films in
flexible
packaging,

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covering scientific principles, properties, processes, and end use considerations. The book brings the science of multilayer films to the practitioner in a concise and impactful way, presenting the

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fundamental understanding required to improve product design, material selection, and processes, and includes information on why one material is favored over another for a particular

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application, or how the film or coating affects material properties.

Detailed descriptions and analysis of the key properties of packaging films are provided from both an engineering and

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scientific perspective. End-use effects are also covered in detail, providing key insights into the way the products being packaged influence film properties and design. The book bridges the gap

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between key scientific literature and the practical challenges faced by the flexible packaging industry, providing essential scientific insights, best practice techniques,

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environmental sustainability information, and key principles of structure design to enable engineers and scientists to deliver superior products with reduced development time and cost.

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Provides essential information on all aspects of multilayer films in flexible packaging Aids in material selection and processing, shortening development times and delivering stronger products

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Bridges the gap between scientific principles and key challenges in the packaging industry, with practical explanations to assist practitioners in overcoming those challenges

"This book

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provides
quantitative
methods for
optical, thermal,
reliability
modelling and
simulation so that
predictive
quantitative
modelling can be
achieved"--

Biopolymeric
Nanomaterials:

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Fundamentals and Applications outlines the fundamental design concepts and emerging applications of biopolymeric nanomaterials. The book also provides information on emerging

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applications of biopolymeric nanomaterials, including in biomedicine, manufacturing and water purification, as well as assessing their physical, chemical and biological properties. This is

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an important reference source for materials scientists, engineers and biomedical scientists who are seeking to increase their understanding of how polymeric nanomaterials are being used for a

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range of
biomedical and
industrial
applications.

Biopolymeric
nanomaterials
refer to
biocompatible
nanomaterials,
consisting of
biopolymers, such
as protein (silk,
collagen, gelatin,

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β -casein, zein, and albumin), protein-mimicked polypeptides and polysaccharides (chitosan, alginate, pullulan, starch, and heparin).

Biopolymeric nanomaterials may be used as i) delivery systems

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for bioactive compounds in food application, (ii) for delivery of therapeutic molecules (drugs and genes), or for (iii) tissue engineering.

Provides information on the design concepts and

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synthesis of
biopolymeric
nanomaterials in
biomedical and
industrial
applications
Highlights the
major properties
and processing
methods for
biopolymeric
nanomaterials
Assesses the

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major challenges
of producing
biopolymeric
nanomaterials on
an industrial scale
Comprising over
4,500 definitions,
this book
provides
explanation of the
often arcane,
English-language
terminology that

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denotes the materials and manufacturing processes used in different phases of the packaging industry. It is suitable for those who use packaging technology. Innovative Packaging of

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Fruits and
Vegetables:
Strategies for
Safety and
Quality
Maintenance
Design,
Manufacturing,
and Testing
The Science and
Technology of
Flexible
Packaging

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Edible Films and
Coatings

Fundamentals
and Applications

While MEMS

**technology has
progressed**

rapidly,

**commercialization
of MEMS has**

**been hindered by
packaging**

technology

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barriers and costs. One of the key issues in the industrialization of MEMS, MOEM and ultimately Nanoelectrical devices is the development of appropriate packaging solutions for the protection,

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assembly, and long term reliable operation. This book rigorously examines the properties of the materials used in MEMS and MOEN assembly then evaluates them in terms of their routing, electrical performance,

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thermal management and reliability. With this as a starting point, the book moves on to discuss advanced packaging methods such as: molded thermoplastic packages for MEMS, wafer-

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assembled RFID,
Technology
and wafer-level
stacked
packaging.

With a wealth of
illustrations,
examples,
discussion
questions, and
case studies, the
Food Packaging
Science and
Technology

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covers basic principles and technologies as well as advanced topics such as active, intelligent, and sustainable packaging with unparalleled depth and breadth of scope.

Emphasizing the application of

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relevant scientific principles to create effective designs and quality products, an international team of contributors draws on their collective experience to equip you with the necessary

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knowledge and tools to tackle modern food packaging problems. Divided into four parts, this book begins with an extensive discussion of packaging materials science. Contributions review the basic

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concepts of chemical and physical properties as they relate to food packaging. They cover gas permeation and migration and give detailed information on the four basic types of packaging

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materials: plastics, glass, metal, and cellulosic. The second part applies the previous information to the field of packaging technologies.

Traditional methods and concepts such as end-of-line

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operations,
permeation and
migration, canning
and aseptic
packaging, and
vacuum/modified
atmosphere
packaging are
juxtaposed with
the more
advanced
technologies of
microwaveable

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packaging, active packaging, and intelligent packaging. Part 3 discusses shelf life determination and elements of storage stability and packaging requirements of various food categories. The final part presents

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issues related to packaging sociology, addressing sustainable packaging, as well as sociological and legislative considerations.

Modified
Atmosphere
Packaging for
Fresh-cut Fruits

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Fundamentals Of
Packaging
and Vegetables
Technology
provides

comprehensive
coverage of all
aspects of modern
MAP technologies
for fresh-cut
fruits and
vegetables.

Coverage begins
with the general
MAP concept and
application by

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introducing the concept of MAP, how MAP works for fresh-cut produce and the benefits and shortfalls of MAP in its application. The book then discusses the basic aspects of MAP – packaging materials and

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machinery. In these sections, the book addresses not only the general information about MAP materials, but also supplies examples to introduce the new packaging films and their successful

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application in
produce and fresh-
cut fruits and
vegetables.

Unique chapters
and sections in
the book include
relevant patents
for MAP,
commercial
practices and
MAP packaging
machinery.

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Generally, packaging machinery is only included in books specifically covering packaging engineering. Coverage of this important aspect is included in the book since fresh-cut manufacturers

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spend much more time in the day-to-day operations on packaging machinery and systems as compared to packaging film materials. In the final section, Modified Atmosphere Packaging for

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Fresh-cut Fruits and Vegetables highlights the latest developments in the packaging industry and how they could impact the fresh-cut industry.

The search for better strategies to preserve foods

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with minimal changes during processing has been of great interest in recent decades.

Traditionally, edible films and coatings have been used as a partial barrier to moisture, oxygen, and carbon

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dioxide through selective permeability to gases, as well as improving mechanical handling properties. The advances in this area have been breathtaking, and in fact their implementation in

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the industry is already a reality. Even so, there are still new developments in various fields and from various perspectives worth reporting. Edible Films and Coatings: Fundamentals and Applications

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discusses the newest generation of edible films and coatings that are being especially designed to allow the incorporation and/or controlled release of specific additives by means of nanoencapsulation , layer-by-layer

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assembly, and
other promising
technologies.

Covering the
latest novelties in
research
conducted in the
field of edible
packaging, it
considers state-of-
the-art
innovations in
coatings and films;

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novel applications, particularly in the design of gourmet foods; new advances in the incorporation of bioactive compounds; and potential applications in agronomy, an as yet little explored area, which could

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provide
considerable
advances in the
preservation and
quality of foods in
the field.

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Miniaturization,

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microbiology, and
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tradition of its
bestselling
predecessors and has
been completely
revised to include new,
updated, and
expanded content and**

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overview of
contemporary food
packaging
technologies. Features
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requirements of all
major food groups
Includes new chapters
on food packaging
closures and sealing
systems, as well as
optical, mechanical,
and barrier properties**

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**of thermoplastic
polymers Provides the
latest information on
new and active
packaging technologies
Offers guidance on the
design and analysis of
shelf life experiments
and the shelf life
estimation of foods
Discusses the latest
details on food contact
materials including
those of public interest**

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**such as BPA and
phthalates in foods**

**Devotes extensive
space to the discussion
of edible, biobased and
biodegradable food
packaging materials**

**An in-depth
exploration of the
field, Food Packaging:
Principles and**

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new worked examples
and reflects the latest**

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on electronic
packaging technology!**

The electronics

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industry is shifting towards system packaging technology due to the need for higher chip circuit density without increasing production costs. Electronic packaging, or circuit integration, is seen as a necessary strategy to achieve a performance growth of electronic circuitry in next-

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generation electronics.

**With the
implementation of
novel materials with
specific and tunable
electrical and magnetic
properties, electronic
packaging is highly
attractive as a solution
to achieve denser levels
of circuit integration.
The first part of the
book gives an overview
of electronic**

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**packaging and
provides the reader
with the fundamentals
of the most important
packaging techniques
such as wire bonding,
tap automatic
bonding, flip chip
solder joint bonding,
microbump bonding,
and low temperature
direct Cu-to-Cu
bonding. Part two
consists of concepts of**

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electronic circuit design and its role in low power devices, biomedical devices, and circuit integration.

The last part of the book contains topics based on the science of electronic packaging and the reliability of packaging technology.

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THE GROUND UP
Written by Rao

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Packaging is the only
book to cover the field
from wafer to systems,
including every major
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electronic packaging technologies gives you a solid grounding in microelectronics, photonics, RF, packaging design, assembly, reliability, testing, and manufacturing and its relevance to both semiconductors and systems. You'll find:

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materials aspects of
each technology *Easy-
to-read schematics and
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common
configurations and
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level packaging, single
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microvia boards,
thermal and others
*Details on chip-to-
board connections,
sealing and
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reliability testing
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**Advanced Materials,
Technologies, and
Innovations
Plastic Films in Food
Packaging
Pharmaceutical,
Medical and Food
Applications
Biopolymeric
Nanomaterials**

"Use of packaging is often thought of as an industrial age concept

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but this is entirely untrue. In more ancient times products of economic or nutritional value were always wrapped in a suitable material to convey the need to protect the contents. The Roman emperors and Byzantine kings frequently wrapped precious goods in all manner of materials from woven

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rattan baskets to carved and gilded in-laid ebony boxes. Expensive luxury goods such as chalices, and ceremonial goods are almost always stored in a suitable presentation case that demonstrated the value of the product contained within. Perfumes, chrism oils and ceremonial jewellery has always been

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containered in sculpted and carved lidded-boxes and glazed pottery. The use of bespoke packaging is really a modern age phenomenon. However, the footsteps of packaging use began with leaves and birch bark and other natural materials. In antiquity and prehistoric times humans wrapped their

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foods in crudely fashioned carriers and containers but also pelts and hides. Mass production of containers later involved woven materials e.g. rushes and reeds to create baskets and carriers but also the use of, textiles, pottery and bronze amphora and carved objects e.g. ivory, antler horn and wood. Recent

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estimates place "crude glass" or vitrified materials and wood packaging use to at least 3000 BC and these artifacts come from the Indus Valley civilisations and Mesopotamia"--
The protection and preservation of a product, the launch of new products or re-launch of existing

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products, perception of added-value to products or services, and cost reduction in the supply chain are all objectives of food packaging.

Taking into consideration the requirements specific to different products, how can one package successfully meet all of these goals? Food Packaging Technology

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provides a contemporary overview of food processing and packaging technologies. Covering the wide range of issues you face when developing innovative food packaging, the book includes: Food packaging strategy, design, and development Food biodeterioation and methods of preservation Packaged

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product quality and shelf life Logistical packaging for food marketing systems Packaging materials and processes The battle rages over which type of container should be used for which application. It is therefore necessary to consider which materials, or combination of

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materials and processes will best serve the market and enhance brand value. Food Packaging Technology gives you the tools to determine which form of packaging will meet your business goals without compromising the safety of your product.

This is the second edition of a successful

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title first published in 1983 and now therefore a decade out of date. The authors consider the development of the right package for a particular food in a particular market, from the point of view of the food technologist, the packaging engineer and those concerned with marketing. While the original format has been

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retained, the contents have been thoroughly revised to take account of the considerable advances made in recent years in the techniques of food processing, packaging and distribution. While efficient packaging is even more a necessity for every kind of food, whether fresh or processed, and is an

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essential link between the food producer and the consumer, the emphasis on its several functions has changed. Its basic function is to identify the product and ensure that it travels safely through the distribution system to the consumer.

Packaging designed and constructed solely for this purpose adds little

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or nothing to the value of the product, merely preserving farm or processor freshness or preventing physical damage, and cost effectiveness is the sole criterion for success. If, however, the packaging facilitates the use of the product, is reusable or has an after-use, some extra value can be added to justify the

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extra cost and promote sales. Many examples of packaging providing such extra value can be cited over the last decade.

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blocks of information processing technology such as: a) printed wiring boards and laminates b) various types of components and packages c) materials and processes d) fundamentals of reliability and relevant reliability enhancement methods, and e) typical failures observed are described. A fully tested

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semiconductor device is the starting point for this text. Thus, no background in the semiconductor design or fabrication is assumed. The reader is exposed to the interaction and convergence of various disciplines such as chemistry, physics, materials science, metallurgy, process engineering in the

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Lamination methods and Applications. The book throws light on the raw materials required for the same and the various processes involved. This might work as a reference book for

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