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Food Processing  
Technology:  
Principles and  
Practice, Fifth

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Edition includes emerging trends and developments in food processing. The book has been fully updated to provide comprehensive, up-to-date technical information. For each food processing unit

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operation, theory and principles are first described, followed by equipment used commercially and its operating conditions, the effects of the operation on micro-organisms, and the nutritional and

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sensory qualities of  
the foods  
concerned. Part I  
describes basic  
concepts; Part II  
describes  
operations that  
take place at  
ambient  
temperature; Part  
III describes  
processing using

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heat; Part IV describes processing by removing heat; and Part V describes post-processing operations. This book continues to be the most comprehensive reference in the field, covering all

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processing unit  
operations in a  
single volume. The  
title brings key  
terms and  
definitions, sample  
problems,  
recommended  
further readings  
and illustrated  
processes.  
Presents current

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trends on food  
sustainability,  
environmental  
considerations,  
changing  
consumer choices,  
reduced packaging  
and energy use,  
and functional and  
healthy/plant-  
based foods  
Includes highly

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illustrated line  
drawings and/or  
photographs to  
show the principles  
of equipment  
operation and/or  
examples of  
equipment that is  
used commercially  
Contains worked  
examples of  
common



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calculations  
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Bio-Based  
Packaging Bio-  
Based Packaging  
An authoritative  
and up-to-date  
review of  
sustainable  
packaging  
development and  
applications Bio-  
Based Packaging

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explores using renewable and biodegradable materials as sustainable alternatives to non-renewable, petroleum-based packaging. This comprehensive volume surveys the properties of

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biopolymers, the environmental and economic impact of bio-based packaging, and new and emerging technologies that are increasing the number of potential applications of green materials in the packaging

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industry.

Contributions  
address the  
advantages and  
challenges of bio-  
based packaging,  
discuss new  
materials to be  
used for food  
packaging, and  
highlight cutting-  
edge research on

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polymers such as starch, protein, polylactic acid (PLA), pectin, nanocellulose, and their nanocomposites. In-depth yet accessible chapters provide balanced coverage of a broad range of

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practical topics,  
including life cycle  
assessment (LCA)  
of bio-based  
packaging  
products,  
consumer  
perceptions and  
preferences,  
supply chains,  
business strategies  
and markets in

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biodegradable food  
packaging,  
manufacturing of  
bio-based  
packaging  
materials, and  
regulations for food  
packaging  
materials. Detailed  
discussions  
provide valuable  
insight into the

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opportunities for  
biopolymers in end-  
use sectors, the  
barriers to  
biopolymer-based  
concepts in the  
packaging market,  
recent advances  
made in the field of  
biopolymeric  
composite  
materials, the



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future of bio-  
plastics in  
commercial food  
packaging, and  
more. This book:  
Provides deep  
coverage of the bio-  
based packaging  
development,  
characterization,  
regulations and  
environmental and

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socio-economic  
Print Industry  
Intelligence  
impact Contains  
real-world case  
studies of bio-  
based packaging  
applications  
Includes an  
overview of recent  
advances and  
emerging aspects  
of nanotechnology  
for development of

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sustainable  
composites for  
packaging  
Discusses  
renewable sources  
for packaging  
material and the  
reuse and recycling  
of bio-based  
packaging  
products Bio-  
Based Packaging

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is essential reading  
for academics,  
researchers, and  
industry  
professionals  
working in  
packaging  
materials,  
renewable  
resources,  
sustainability,  
polymerization

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technology, food  
technology,  
material  
engineering, and  
related fields. For  
more information  
on the Wiley Series  
in Renewable  
Resources, visit [www.wiley.com/go/rrs](http://www.wiley.com/go/rrs)

"Because

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leachables are non-drug-related impurities, there are increased concerns regarding the risks of inhaling them on a daily basis. This book describes the development and application of safety thresholds

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for Orally Inhaled  
and Nasal Drug  
Products (OINDP).

It discusses best  
practices for  
evaluation and  
management of  
leachables and  
extractables  
throughout the  
pharma product  
lifecycle by

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providing practical  
knowledge about  
how and why  
safety thresholds  
were developed.  
This book also  
illustrates how to  
apply these  
concepts and  
principles to  
products beyond  
OINDP, and



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includes an  
appendix of  
experimental  
protocols for  
laboratory  
analysis"--Provided  
by publisher.

This book  
discusses all the  
main types of  
packaging based  
on paper and

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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

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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

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involved. The importance of pack design is stressed, and how these materials offer packaging designers opportunities for imaginative and innovative design solutions.

Environmental and

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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

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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

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students of  
packaging  
technology.

This book covers  
the chemistry,  
physics, materials  
science,  
engineering, and  
therapeutic  
aspects of many  
different types of  
packaging

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materials,  
Print Industry  
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emphasizing  
throughout the  
applicability of  
various aspects of  
packaging science  
and technology. It  
also provides a  
simultaneous  
discussion of  
interrelated fields,  
and addresses the



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universal issues  
within these fields'  
application areas.

Intended as a  
technical reference  
and as a study aid,  
it is relevant to  
anyone who  
studies or uses  
packaging or  
packaging  
materials.

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Packaging  
Technology and  
Engineering:  
Pharmaceutical,  
Medical and Food  
Applications begins  
with an overview of  
the history of the  
topic. It then offers  
chapters on the  
methods of  
obtaining raw

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materials, the chemistry of polymeric and non-polymeric packaging materials, physico-chemical quality parameters, and the manufacturing of packaging. Other topics look at: additives, use,

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suppliers, safety  
and environmental  
concerns,  
regulation, anti-  
fraud activities,  
new trends, and  
the future of  
packaging  
technology. The  
book also features  
numerous  
problems and

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worked solutions to  
aid student  
comprehension.

Covers packaging  
and packaging  
materials, their  
properties and  
technologies

Addresses the  
chemical  
engineering,  
physics, and

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chemistry of  
packaging  
materials, and the  
individual  
requirements for  
food,  
pharmaceutical,  
and medical device  
packaging Includes  
current issues such  
as environmental  
concerns and

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sustainability,  
recycling and after-  
use, anti-  
counterfeiting  
technology, and  
packaging  
regulations and  
guidelines  
Packaging  
Technology and  
Engineering:  
Pharmaceutical,

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Medical and Food Applications will appeal to all packaging technologists, scientists, and engineers in industry, and in regulatory agencies. It is also an excellent book for advanced



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students studying  
packaging courses,  
within pharmacy,  
pharmaceutical  
sciences, chemical  
sciences,  
biomedical  
sciences, medical  
sciences,  
engineering,  
product design and  
technology, and

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food  
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science/technology  
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·  
Exploring Global  
Harmonization  
Safety Evaluation,  
Qualification, and  
Best Practices  
Applied to  
Inhalation Drug  
Products  
Nanoparticles in

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Active Polymer  
Food Packaging  
Packaging for  
Sustainability  
Fundamentals and  
Applications  
Recycling of  
Polyurethane  
Wastes

***This Brief defines  
reliable correlations  
between the food***

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***packaging design  
and its chemical  
features in terms of  
an 'integrated food  
product' (the  
synergistic union  
composed of the  
edible content and  
its container). A  
good design, as  
described in this  
Brief, implies the  
best choices from a  
series of***

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***possibilities, taking into account economical and commercial influences or limitations in the production and processing chain and the chemical interactions that can arise between the food containers and the contained edible material. This Brief***

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***highlights how the  
different  
requirements can be  
combined, while  
avoiding dangerous  
food risks  
originating from the  
chemical interaction  
between the  
container and the  
product. Different  
designs are critically  
analysed with  
relation to the effect***

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***on contained foods.  
The influences and  
resulting  
consequences of  
different possible  
food packaging  
designs are  
highlighted and  
discussed in  
selected case  
studies for some  
every-day products  
(like potato chips).  
Active polymer food***

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***packaging is  
packaging which  
has been designed  
to deliberately  
interact with food or  
with a direct food  
environment to  
reduce oxygen and  
moisture levels,  
preserve flavourings  
and the quality of  
the food. New  
concepts of active  
and intelligent***



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***packaging play an increasingly important role by offering numerous and innovative solutions for extending the shelf-life or for maintaining, improving or monitoring food quality and safety. This is the driving force for the food***

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Print Industry  
*packaging  
industry's  
development of new  
and improved  
packaging concepts  
using  
nanoparticles. This  
book gives an  
overview of  
applications for  
various types of  
nanoparticles, such  
as different metal  
based substances,*

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Intelligence

***and explains their  
role in polymer food  
packaging. The book  
also elaborates the  
mechanism of  
activity of each type  
of nanoparticle, for  
example:-***

***Antimicrobial  
activity- Oxygen  
absorption  
(scavengers)-  
Ultraviolet blocking  
properties- Water***

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*vapour*

*permeability*

*The characterisation of  
polymer*

*nanocomposite*

*materials and the*

*regulatory aspects*

*of nanomaterials are*

*also discussed.*

*Information is provided*

*about the polymers*

*and polymer*

*nanocomposites,*

*and in addition, the*

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***book provides  
information about  
new food packaging  
materials with  
improved  
mechanical, barrier  
and antimicrobial  
properties to  
preserve the food  
during transport and  
storage.***

***Paper recycling in  
an increasingly  
environmentally***

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***conscious world is gaining importance. Increased recycling activities are being driven by robust overseas markets as well as domestic demand. Recycled fibers play a very important role today in the global paper industry as a substitute for virgin pulps. Paper***

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recovery rates  
Print Industry  
continue to increase  
year after year  
Intelligence  
**Recycling  
technologies have  
been improved in  
recent years by  
advances in pulping,  
flotation deinking  
and  
cleaning/screening,  
resulting in the  
quality of paper  
made from**

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***secondary fibres  
approaching that of  
virgin paper. The  
process is a lot  
more eco-friendly  
than the virgin-  
papermaking  
process, using less  
energy and natural  
resources, produce  
less solid waste and  
fewer atmospheric  
emissions, and  
helps to preserve***



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*natural resources  
and landfill space.*

*Currently more than  
half of the paper is  
produced from  
recovered papers.  
Most of them are  
used to produce  
brown grades paper  
and board but for  
the last two  
decades, there is a  
substantial increase  
in the use of*

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***recovered papers to produce, through deinking, white grades such as newsprint, tissue, market pulp. By using recycled paper, companies can take a significant step toward reducing their overall environmental impacts. This study***

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***deals with the scientific and technical advances in recycling and deinking including new developments. Covers in great depth all the aspects of recycling technologies Covers the latest science and technology in recycling Provides up-to-date,***

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***authoritative  
information and  
cites many mills  
experiences and  
pertinent research  
Includes the use of  
biotech methods for  
deinking, refining.  
and improving  
drainage***

***This Brief is  
concerned with the  
connection between  
food packaging and***

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***the chemical composition of packaging materials. In terms of the food packaging hygiene, the influence of the containers on the contained foods is discussed. The book explores new and emerging risks related to food packaging materials in connection with***

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***the contained commodities. It also discusses the technology of production with relation to the chemical risk in a “Hazard Analysis and Critical Control Point” (HACCP) investigation. Tropical and sub-tropical fruits have gained significant***

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***importance in global  
commerce. This  
book examines  
recent  
developments in the  
area of fruit  
technology  
including:  
postharvest  
physiology and  
storage; novel  
processing  
technologies  
applied to fruits; and***

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***in-depth coverage  
on processing,  
packaging, and  
nutritional quality of  
tropical and sub-  
tropical fruits. This  
contemporary  
handbook uniquely  
presents current  
knowledge and  
practices in the  
value chain of  
tropical and  
subtropical fruits***



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***world-wide,  
covering production  
and post-harvest  
practices, innovative  
processing  
technologies,  
packaging, and  
quality  
management.  
Chapters are  
devoted to each  
major and minor  
tropical fruit  
(mango, pineapple,***

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*banana, papaya,  
date, guava, passion  
fruit, lychee,  
coconut, logan,  
carombola) and  
each citrus and non-  
citrus sub-tropical  
fruit (orange,  
grapefruit,  
lemon/lime,  
mandarin/tangerine,  
melons, avocado,  
kiwifruit,  
pomegranate, olive,*

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***fig, cherimoya,  
jackfruit,  
mangosteen).***

***Topical coverage for  
each fruit is  
extensive, including:  
current storage and  
shipping practices;  
shelf life extension  
and quality;  
microbial issues and  
food safety aspects  
of fresh-cut  
products;***

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***processing operations such as grading, cleaning, size-reduction, blanching, filling, canning, freezing, and drying; and effects of processing on nutrients and bioavailability. With chapters compiled from experts worldwide, this book***

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Intelligence  
***is an essential  
reference for all  
professionals in the  
fruit industry.***

***Biodegradable  
Polymers  
Emerging Waste  
Water Treatment  
Technologies  
Printing on  
Polymers  
Recycling of  
Polyethylene  
Terephthalate***

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**Coatings and Inks  
for Food Contact  
Materials**

**Applications in  
Composites,  
Nanostructured  
Materials, and  
Biomedical Fields**

*Biodegradable  
polymers have  
experienced strong  
growth over the last  
three years and are set*

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*to make further  
inroads into markets  
traditionally dominated  
by conventional  
thermoplastics in  
future. Four main  
classes of  
biodegradable  
polymers are analysed  
in this report, polylactic  
acid (PLA), starch-  
based polymers,  
synthetic biodegradable*

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*polymers, such as aromatic aliphatic copolyesters, and polyhydroxyalkanoates (PHA). The report analyses their key performance properties, applications development, market drivers and future prospects. Each product section also contains an estimate of*



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*market size by world region and end use market, plus forecasts to 2010. There is also an analysis of key suppliers and their products.*

*The packaging industry is under pressure from regulators, customers and other stakeholders to improve packaging's sustainability by*

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*reducing its environmental and societal impacts. This is a considerable challenge because of the complex interactions between products and their packaging, and the many roles that packaging plays in the supply chain.*

*Packaging for*  
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*Sustainability is a concise and readable handbook for practitioners who are trying to implement sustainability strategies for packaging.*

*Industry case studies are used throughout the book to illustrate possible applications and scenarios.*

*Packaging for*  
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*Sustainability draws on the expertise of researchers and industry practitioners to provide information on business benefits, environmental issues and priorities, environmental evaluation tools, design for environment, marketing strategies, and challenges for the*

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future.

*The Impact of Print-  
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*Academic*

*BooksChandos*

*Publishing*

*This Rapra Review*

*Report, Coatings and*

*Inks for Food Contact*

*Materials, has*

*attempted to cover all*

*of the coatings and*

*inks products used in*

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*food contact scenarios.*

*In practice, this*

*encompasses an*

*extremely wide range*

*of polymer systems and*

*formulations, and an*

*emphasis has been*

*placed on coatings and*

*inks used in food*

*packaging, as this is*

*usually regarded as*

*representing the most*

*important application*

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*category with respect to  
the potential for  
migration to occur. In  
addition to a thorough  
introduction of the  
polymers and additives  
that are used to  
produce coatings and  
inks, there are also  
chapters covering the  
regulation of these  
materials, the  
migration and*

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*analytical tests that are performed on them to assess their suitability for food contact applications, the migration data that have been published, and the areas in the field that are receiving the most attention for research and development. The report is accompanied*



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*by around 400  
abstracts compiled  
from the Polymer  
Library, to facilitate  
further reading on this  
subject.*

*Based on a popular  
handbook published  
originally in the Dutch  
language, this volume  
is intended to help  
package designers and  
design team members*

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*achieve cost-effective  
and problem-free  
packages for  
consumers and  
distribution. It does so  
by laying out the many  
phases of a package's  
lifecycle and showing  
the design elements that  
must be decided upon  
at each stage. In this  
context, the book  
highlights multiple*

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*points where designers  
and engineers must  
choose correctly in  
order to create a  
visually appealing as  
well as cost-effective  
and manufacturable  
package-and one that  
is also safe and  
sustainable. The text  
delves into materials,  
machinery, printing,  
test methods, and*

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*regulations and shows  
how subtle changes in  
components and  
processing affect  
designers' options.  
Extensive data is  
provided to plan  
barrier films, cartons,  
cans, jars, bottles, and  
shipping containers,  
including closures and  
labeling.*

*Bio-based Plastics for*  
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Applications*

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*Speciality Beverage*

*Technology*

*Pharmaceutical,*

*Medical and Food*

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*Printing on  
Polymers:*

*Fundamentals  
and Applications  
is the first  
authoritative  
reference  
covering the  
most important  
developments in  
the field of*

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*printing on  
polymers, their  
composites,  
nanocomposites,  
and gels. The  
book examines  
the current  
state-of-the-art  
and new  
challenges in  
the formulation  
of inks, surface*

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*activation of  
polymer  
surfaces, and  
various methods  
of printing. The  
book equips  
engineers and  
materials  
scientists with  
the tools  
required to  
select the*



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*correct method,  
assess the  
quality of the  
result, reduce  
costs, and keep  
up-to-date with  
regulations and  
environmental  
concerns.  
Choosing the  
correct way of  
decorating a*

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*particular  
polymer is an  
important part  
of the  
production  
process.*

*Although  
printing on  
polymeric  
substrates can  
have desired  
positive effects,*

*there can be  
problems  
associated with  
various  
decorating  
techniques.  
Physical,  
chemical, and  
thermal  
interactions can  
cause problems,  
such as*

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*cracking,  
peeling, or  
dulling. Safety,  
environmental  
sustainability,  
and cost are  
also significant  
factors which  
need to be  
considered.*

*With  
contributions*

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institutions, this  
book serves as a  
one-stop  
reference for  
this field—from  
print ink  
manufacture to*

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*polymer surface  
modification  
and  
characterization  
; and from  
printing  
methods to  
applications and  
end-of-life  
issues. Enables  
engineers to  
select the*

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*correct  
decoration  
method for each  
material and  
application,  
assess print  
quality, and  
reduce costs  
Increases  
familiarity with  
the terminology,  
tests, processes,*

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*techniques, and  
regulations of  
printing on  
plastic, which  
reduces the risk  
of adverse  
reactions, such  
as cracking,  
peeling, or  
dulling of the  
print* Addresses  
*the issues of*



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*environmental  
impact and cost  
when printing  
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substrates*

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*comprehensive  
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including the  
basic reasons  
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treatment,  
comparison  
between  
anaerobic and  
aerobic  
treatment,  
effluent types*

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treatment,  
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configurations  
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and how they  
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book examines  
the risk  
assessment and  
effect of



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human health. It  
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necessary  
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introduction,  
historical  
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properties,  
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role discussing  
mechanisms of  
toxicity, its  
effect on human  
health as well as  
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Health is a  
helpful resource  
for academics  
and researchers  
in toxicology,  
occupational*

*health and  
safety, and  
environmental  
sciences as well  
as those in the  
field who work  
to assess and  
mitigate the  
impact of toxic  
gases on the  
work  
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the first book  
which  
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*y reviews this  
topic. Over the  
past decade,  
pulp and paper  
companies have  
continued to  
focus on  
minimizing  
fresh water use  
and effluent  
discharges as  
part of their*

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*move towards  
sustainable  
operating  
practices. Three  
stages—basic  
conservation,  
water reuse and  
water recycling  
—provide a  
systematic  
approach to  
water resource*

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*Implementing  
these stages  
requires  
increased  
financial  
investment and  
better  
utilization of  
water  
resources. The  
ultimate goal for*

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*pulp and paper companies is to have effluent-free factories with no negative environmental impact. The traditional water treatment technologies that are used in paper mills are*

*not able to  
remove  
recalcitrant  
contaminants.  
Therefore,  
advanced water  
treatment  
technologies are  
being included  
in industrial  
wastewater  
treatment*

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*chains aiming to  
either improve  
water  
biodegradability  
or its final  
quality. This  
book discusses  
various  
measures being  
adopted by the  
pulp and paper  
industry to*

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*reduce water  
consumption  
and treatment  
techniques to  
treat  
wastewater to  
recover it for  
reuse. The book  
also examines  
the emerging  
technologies for  
treatment of*

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*effluents and  
presents  
examples of full-  
scale  
installations.*

*Provides  
thorough and in-  
depth coverage  
of advanced  
treatment  
technologies  
which will*



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*benefit the  
industry  
personnel, pulp  
manufacturers,  
researchers and  
advanced  
students  
Presents new  
treatment  
strategies to  
improve water  
reuse and fulfill*

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*the legislation  
in force  
regarding  
wastewater  
discharge  
Presents viable  
solutions for  
pulp and paper  
manufacturers  
in terms of  
wastewater  
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*Presents  
examples of full-  
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*installations to  
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of paper and  
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the basic  
properties and  
features  
on which  
packaging made  
from these  
materials*

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*depends for  
its appearance  
and*

*performance.*

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twelve types  
of paper- and pa  
perboard-based  
packaging is  
described,  
together*

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*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*

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sustainability,  
societal and*



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a dedicated  
chapter. The  
book is directed  
at readers  
based in  
companies which  
manufacture  
packaging*

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packaging,  
and companies  
which  
manufacture  
inks, coatings,  
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eptable material,  
namely paper  
and paperboard.  
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ournal of Dairy  
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Antimicrobial  
packaging systems  
are those that  
beneficially interact



with the food or  
with the  
surrounding  
environment,  
inhibiting  
microorganism  
growth or reducing  
their counts to  
improve the quality  
and extend the  
shelf-life of  
industrially  
produced foods.

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They have undoubtedly become a fully accepted alternative to the direct addition of preservatives to foods, with excellent future prospects. This book will help develop a working knowledge and understanding

of antimicrobial packaging, it includes a description of the antimicrobial agents most commonly used and their mechanisms of action, the manufacturing methods available to fabricate the active system, the

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critical parameters  
to make an  
effective product  
and the tools to  
optimise them, and  
the various in vitro  
and in vivo  
methods for  
measuring the  
goodness of the  
antimicrobial  
system for  
validation

purposes. The reader will develop the ability to understand why a specific agent is selected for a particular food product, or why a specific polymeric material and manufacturing technology are chosen. The reader

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will also become familiar with the different procedures for improving the activity of the packaging solution that is being developed and ways of testing its efficacy. This will accelerate the formulation of the

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to be a practical  
guide to  
antimicrobial  
packaging and a  
quick reference for  
students and  
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both academia and  
industry.

Handbook of  
Hygiene Control in  
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continues to be an authoritative reference for anyone who needs hands-on practical information to improve best practices in food safety and quality. The book is written by leaders in the field who understand the

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complex issues of  
control surrounding  
food industry  
design, operations,  
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analysis  
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control of  
pathogens as well

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as pathogen  
resistance

This book provides an overall view of the new and highly promising materials and thin film deposition techniques for printable solar cell applications. The book is organized in four parts.

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Organic and inorganic hybrid materials and solar cell manufacturing techniques are covered in Part I. Part II is devoted to organic materials and processing technologies like spray coating. This part also demonstrates the

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key features of the interface engineering for the printable organic solar cells. The main focus of the Part III is the perovskite solar cells, which is a new and promising family of the photovoltaic applications.



Finally, inorganic materials and solution based thin film formation methods using these materials for printable solar cell application is discussed in Part IV.

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different. The data  
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and people. Our  
intuitions formed  
during a uniquely  
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the world

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economy—often termed the Great Moderation. Asset prices were rising, cost of capital was falling, labour and resources were abundant, and generation after generation was growing up more prosperous than their parents. But

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with low job skills,  
are at risk of  
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depth of analysis  
combined with  
lively writing  
informed by  
surprising,  
memorable insights

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that enable us to quickly grasp the disruptive forces at work. For evidence of the shift to emerging markets, consider the startling fact that, by 2025, a single regional city in China—Tianjin—will have a GDP equal to that of the

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Sweden, of that, in the decades ahead, half of the world's economic growth will come from 440 cities including Kumasi in Ghana or Santa Carina in Brazil that most executives today would be hard-pressed to locate on a map. What we



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supply, while  
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recognizing*

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looking to  
further advance  
and implement  
recycling  
methods for  
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of-the-art  
methods and  
technologies  
regarding the  
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with coins, have  
been  
unsuccessful.  
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reluctance to  
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*"Georges" are  
beyond rational  
considerations  
but tap into  
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means discarding  
the metaphorical  
Father of His  
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*nation's first  
Secretary of the  
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that monetary  
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history of  
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***in order to  
achieve targeted  
structural  
morphologies,  
and physical and  
chemical  
properties for  
use in food-  
packaging  
applications. In  
line with bio-  
based and/or  
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plastic***

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***matrices, the  
current status  
of the  
development of  
multifaceted  
bionanofillers  
is also explored  
in detail. This  
book begins by  
addressing the  
past, present  
and future  
prospects of bio-  
based and/or***

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*biodegradable  
polymers in  
specific food-  
packaging  
applications,  
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importance and  
advantages of  
such packaging  
over fossil  
polymer-based  
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*Furthermore,*



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*examines the*

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*overview of bio-*

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*polymers and*

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*and the structur*

*e-property*

*relationship*

*required for*

*various advanced*

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***applications are  
also featured. In  
addition,  
extensive  
discussions  
include  
different edible  
biopolymer-based  
coatings on food  
items which can  
act as effective  
carriers for  
improving the  
shelf life of***

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**food. Moreover,  
various end-of-  
life solutions  
of plastics such  
as recycling,  
reuse,  
composting and  
so on, for the  
safe disposal of  
plastic waste  
are reviewed.  
Finally, this  
book discusses  
migration**

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regulations of  
such packages in  
contact with  
food, which are  
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across the  
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included on  
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different  
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in terms of the  
global  
legislation in  
place to ensure  
their safe and  
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containers and  
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surfaces can  
pose a  
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hazard to both  
food  
manufacturer and  
consumer due to  
the migration of  
chemicals or**

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from the  
material to the  
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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

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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

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distribution systems. Recent developments on recycling and sustainability are also highlighted. As consumer demand for traditional carbonated drinks falls, the market for beverages with perceived health-promoting



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properties is  
growing rapidly.

Formulating a  
nutritional,  
nutraceutical or  
functional  
beverage with  
satisfactory  
sensory quality and  
shelf-life can be  
challenging. This  
important  
collection reviews  
the key

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ingredients,  
formulation  
technology and  
health effects of  
the major types of  
functional and  
speciality  
beverage. Chapters  
in part one  
consider essential  
ingredients such as  
stabilizers and  
sweeteners, and  
significant aspects

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of formulation such as fortification technology and methods to extend shelf-life. Dairy-based beverages are the focus of Part two, with chapters covering methods to improve the nutritional and sensory quality and technological

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functionality of milk, a crucial ingredient in many healthful beverages.

Chapters on newer dairy ingredients, such as whey and milk-fat globule membrane complete the section. Part three then reviews advances in the

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significant plant-based beverage sector, with chapters on popular products such as fruit juices, sports drinks, tea and coffee. Soy proteins are also covered. Chapters on product development and the role of beverages in the

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diet complete the volume. With its distinguished editor and contributors, Functional and speciality beverage technology is an essential collection for professionals and academics interested in this product sector. Reviews the key ingredients,

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formulation  
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technology and methods to extend shelf-life are considered Focuses on methods to improve the nutritional and sensory quality and technological functionality of milk

Polyethylene terephthalate (PET) is the most



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recycled plastic in the world. This book covers all from the world market of PET to the many technologies and processes developed for separation, decontamination, recycling and manufacturing into food-grade and non-

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food-grade products of PET. Also, regulations, testing methods and analytical procedures according to the current regulatory framework are presented. This book investigates processes to reduce

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environmental pollution and polyurethane (PU) waste going to landfill. The author explains recycling approaches as well as instrumental methods such as nuclear magnetic resonance (NMR) spectroscopy and Fourier-Transform infrared

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spectroscopy for  
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