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Polypropylene
The Definitive S
Plastics Design
Library
Definitive S
Plastics
Design
Library

*Undoubtedly the
applications of
polymers are*

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*rapidly evolving.
Technology is
continually
changing and
quickly
advancing as
polymers are
needed to solve a
variety of day-to-
day challenges
leading to
improvements in
quality of life.*

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The Encyclopedia of Polymer Applications presents state-of-the-art research and development on the applications of polymers. This groundbreaking work provides important overviews to help

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*stimulate further
advancements in
all areas of
polymers. This
comprehensive
multi-volume
reference
includes articles
contributed from
a diverse and
global team of
renowned
researchers. It*

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offers a broad-based perspective on a multitude of topics in a variety of applications, as well as detailed research information, figures, tables, illustrations, and references. The encyclopedia

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polypropylene provides introductions, classifications, properties, selection, types, technologies, shelf-life, recycling, testing and applications for each of the entries where applicable. It features critical

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content for both novices and experts including, engineers, scientists (polymer scientists, materials scientists, biomedical engineers, macromolecular chemists),

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researchers, and students, as well as interested readers in academia, industry, and research institutions. This book is an update to the first edition compiled and published in 1990

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*by William
Woishnis. A lot
has changed in
the field since
1990 and a lot
has not changed.
There are new
plastic materials.
There has been a
huge turnover in
ownership of
plastics
producing*

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companies. There has been a lot of consolidation, which of course means discontinued products. Thus, this update is much more extensive than the usual "next edition." It has been reorganized

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*from a chemistry
point of view.*

*Plastics of similar
polymer types
are grouped into
nine chapters.*

*Each of these
chapters includes
an introduction
with a brief
explanation of
the chemistry of
the polymers*

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*used in the
plastics. An
extensive first
chapter has been
added as an
introduction that
summarizes the
chemistry of
making polymers,
the formulation
of plastics,
testing and test
methods, and*

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polypropylene plastic selection. Most plastic products and parts are expected to be used in environments other than room temperature and standard humidity conditions.

Chapters 2-10

Page 13/230

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are a databank that serves as an evaluation of plastics as they are exposed to varying operating conditions at different temperatures, humidity, and other factors. Over 900 graphs for more than 45

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generic families of plastics are contained in these chapters. Chapter 11 contains extensive mechanical and electrical data in tabular form. The tables contain data on several thousand

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Polypropylene
plastics.

Similarly,

Chapter 12

contains thermal
data on several
thousand

plastics. Data

from the first

edition have only

been removed if

those products

were

discontinued, and

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*many products
were. Product
names and
manufacturers
have been
updated. •
Detailed
introductions of
plastics
properties,
testing
procedures, and
principles of*

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polypropylene
plastics design. •
The only
"databook"
available on the
effects of
temperature and
humidity
conditions on
plastics and
elastomers. •
More than 1,000
graphs and tables
allow for easy

Download File
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*comparison
between
products.* •

*Covers more than
70 types of
plastics, and
summarizes the
chemistry of each
type.*

*Handbook of
Thermoplastic
Elastomers,
Second Edition*

Page 19/230

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*Polypropylene
The Definitive S
Plastics Design
Library*
*presents a
comprehensive
working
knowledge of
thermoplastic
elastomers
(TPEs), providing
an essential
introduction for
those learning
the basics, but
also detailed
engineering data*

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*Polypropylene
The Definitive S
Plastics Design
Library*
*and best practice
guidance for
those already
involved in
polymerization,
processing, and
part
manufacture.
TPEs use short,
cost-effective
production
cycles, with
reduced energy*

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Polypropylene consumption compared to other polymers, and are used in a range of industries including automotive, medical, construction and many more. This handbook provides all the

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practical information engineers need to successfully utilize this material group in their products, as well as the required knowledge to thoroughly ground themselves in the

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*fundamental
chemistry of
TPEs. The data
tables included in
this book assist
engineers and
scientists in both
selecting and
processing the
materials for a
given product or
application. In
the second*

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edition of this handbook, all chapters have been reviewed and updated.

New polymers and applications have been added — particularly in the growing automotive and medical fields — and changes in

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chemistry and processing technology are covered. Provides essential knowledge of the chemistry, processing, properties, and applications for both new and established technical

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*professionals in
any industry
utilizing TPEs
Datasheets
provide "at-a-
glance"
processing and
technical
information for a
wide range of
commercial TPEs
and compounds,
saving readers*

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*the need to
contact suppliers
Includes data on
additional
materials and
applications,
particularly in
automotive and
medical
industries
Applications of
Fluoropolymer
Films: Properties,*
Page 28/230

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*Polypropylene
The Definitive S
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Library*

*Processing, and
Products
presents an
overview of
fluoropolymer
films,
manufacturing
methods, typical
properties, and
commercial
grades for each
type of
fluoropolymer*

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film. The second part of the book is uniquely focused on the applications of fluoropolymer films, with detailed information on their use in cutting-edge items across major industries,

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*including
aerospace and
automotive,
architectural,
chemical
processing,
construction,
consumer
products,
electronics, food
packaging,
pharmaceuticals
and solar energy.*

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*Presents a
focused approach
on the practical
applications of
fluoropolymer
films, supporting
their use in state-
of-the-art
products across a
range of
industries
Contains detailed
coverage of*

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*Polypropylene
manufacturing
methods,
properties and
commercial
grades for
fluoropolymer
films* Unlocks the
potential of the
advanced
properties
offered by
fluoropolymer
films

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*Non-Melt
Processible
Fluoropolymers -
The Definitive
User's Guide and
Data Book
Lower Extremity,
Trunk and Burns
Fatigue and
Tribological
Properties of
Plastics and
Elastomers*

Page 34/230

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*Industrial and
Medical
Applications
A Practical Guide
Mechanical
Engineers'
Handbook,
Volume 1*

*Polyolefins are one of
the most widely used
commercial polymers.
This book reviews the
most important*

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polyolefins, including polyethylene and polypropylene. These versatile fibres are durable, chemically resistant, lightweight, economical and functional. Polyolefin fibres: industrial and medical applications provides a comprehensive review of the structure and

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properties of this group of fibres, together with methods to improve the functionality of polyolefins and their range of applications. The first set of chapters discusses the different types of polyolefins, their structural and chemical properties

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as well as their production methods. The second group of chapters examines how to improve the functionality of polyolefin fibres. A final group of chapters addresses how polyolefins can be incorporated into specific applications such as industrial,

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*medical and
automotive products.*

*Written by a
distinguished team of
international
contributors,*

*Polyolefin fibres:
industrial and
medical applications
is a quintessential
reference for textile
technologists, fibre
scientists, yarn and*

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polypropylene fabric manufacturers and also those in academia. Reviews the most important polyolefins including polyethylene and polypropylene, their structural and chemical properties as well as production methods Examines methods to improve the functionality of

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*polyolefin fibres
including production
methods and quality
control*

*The second edition of
Extrusion is designed
to aid operators,
engineers, and
managers in
extrusion processing
in quickly answering
practical day-to-day
questions. The first*

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*part of the book
provides the
fundamental
principles, for
operators and
engineers, of
polymeric materials
extrusion processing
in single and twin
screw extruders. The
next section covers
advanced topics
including*

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troubleshooting, auxiliary equipment, and coextrusion for operators, engineers, and managers. The final part provides applications case studies in key areas for engineers such as compounding, blown film, extrusion blow molding, coating, foam, and

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reprocessing. This practical guide to extrusion brings together both equipment and materials processing aspects. It covers basic and advanced topics, for reference and training, in thermoplastics processing in the extruder. Detailed

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reference data are provided on such important operating conditions as temperatures, start-up procedures, shear rates, pressure drops, and safety. A practical guide to the selection, design and optimization of extrusion processes and equipment

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*Designed to improve
production efficiency
and product quality*

*Focuses on practical
fault analysis and
troubleshooting
techniques*

*The definitive
reference on the
properties and
applications of
polyolefin blends*

Polyolefins account

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for more than half of total plastics consumption in the world. In recent years, usage of and research on polyolefin blends have increased significantly due to new applications in medicine, packaging, and other fields and the development of

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*novel polyolefins.
With a special
emphasis on nano-
and micro-structures
of crystals and phase
morphology,
Polyolefin Blends
condenses and
consolidates current
information on
polyolefins so that the
reader can compare,
select, and integrate a*

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material solution.

*Focusing exclusively on the fundamental aspects as well as applications of polyolefin blends, this authoritative reference: * Features an introductory chapter that serves as a guide to polyolefin blends * Includes chapters covering*

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*formulation design,
processing,
characterization,
modeling and
simulation,
engineering
performance
properties, and
applications * Covers
polyolefin/polyolefin
blends and polyolefin/
non-polyolefin blends
* Discusses*

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*miscibility, phase
behavior,
functionalization,
compatibilization,
microstructure,
crystallization,
hierarchical
morphology, and
physical and
mechanical properties*
** Covers new
research trends
including in-situ*

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*reactor blending and reactive processing, such as compatibilization/functionalization in the melt * Contains practical examples from open literature sources and commercial products With chapters contributed by leading experts from several countries, this*

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is a must-have reference for scientists and engineers conducting research on polyolefin blends and for professionals in medical, packaging, and other commodity fields. It is also an excellent text for graduate students studying polymer

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*science and polymer
processing.*

*Design and
Manufacturing of
Plastics Products:
Integrating
Conventional
Methods and
Innovative
Technologies brings
together detailed
information on
design, materials*

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*selection, properties,
manufacturing, and
the performance of
plastic products,
incorporating the
utilization of the
latest novel
techniques and
additive
manufacturing
technologies. The
book integrates the
design of molded*

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*polypropylene
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***products and
conventional
manufacturing and
molding techniques
with recent additive
manufacturing
techniques to produce
performant products
and cost-effective
tools. Key areas of
innovation are
explained in detail,
including hybrid***

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polypropylene molds, the integration of processing options with product properties and performance, and sustainability factors such as eco-design strategies, recycling, and lifecycle assessment. Other sections cover the development of plastics products,

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including design methodologies, design solutions specific to plastics, and design for re-use, as well as manufacturing and performance, with an emphasis on thermoplastic molding techniques, recent advances on plastics tooling, and the appraisal of the

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*influence of
processing options on
product performance.*

*This is a valuable
resource to plastics
engineers, design
engineers, mold
makers, and product
or part designers
across industries. It
will also be of interest
to researchers and
advanced students in*

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*Polypropylene
The Definitive S
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***plastics engineering,
polymer science,
additive
manufacturing and
mechanical
engineering. Offers a
thorough grounding
in plastics part
design, thermoplastic
material selection,
properties,
manufacture and
performance of***

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polypropylene plastic parts Presents the latest advances, including the integration of additive manufacturing in the plastics product development cycle, hybrid molds, and lifecycle and recycling considerations Enables the reader to utilize traditional

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*methods alongside
cutting-edge
technologies in the
production of
performant plastic
products and parts
Industrial Practice
and Case Studies
Polymers for 3D
Printing
Extrusion
Guide to Information
Sources in*

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*Engineering
Fluoroplastics,
Volume 2: Melt
Processible
Fluoroplastics
Handbook of Molded
Part Shrinkage and
Warpage*

This is the
second of a two
volume series of
books about
fluoroplastics.

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Polypropylene
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Volume 1 covers the non-melt processible homopolymers, requiring non-traditional processing techniques.

Volume 2 is devoted to the melt-processible fluoropolymers, their polymerization

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Polypropylene
and fabrication
techniques
including
injection
molding, wire,
tube, and film
extrusion,
rotational
molding, blow
molding,
compression
molding, and
transfer
molding. Both a

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Polypropylene
The Definitive Source
Plastics Design
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source of data
and a reference,
the properties,
characteristics,
applications,
safety,
disposal, and
recycling of
melt-processible
fluoropolymers
are
comprehensively
detailed for
immediate use by

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Polypropylene
today's
practicing
engineering and
scientists in
the plastics
industry.

Students will
benefit from the
book's
arrangement and
extensive
references.

This
comprehensive

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Polypropylene
handbook
The Definitive S
provides a
Plastics Design
simplified,
Library
practical and
innovative
approach to
understanding
the design and
manufacture of
plastic
products. It
will expand the
reader's
understanding of

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Polypropylene
plastics

technology by

defining and

focusing on

past, current,

and future

technical

trends. The

content is

presented so

that both

technical and

nontechnical

readers can

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understand the interrelationship of materials to processes.

Different plastic products are examined and their related critical factors are shown, from meeting performance requirements in different

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Polypropylene environments, to
reducing costs
and targeting
for zero
defects.

Examples used
include small to
large, and
simple to
complex shapes.
Information is
included on
static
properties

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Polypropylene

(tensile,
flexural),

The Definitive S

Plastic Design

Library
properties

(creep, fatigue,
impact) and

physical and

chemical

properties.

Extensive

reference

sources and

useful data and

physical and

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Polypropylene
chemical
constants are
also provided.
Volume 2 offers
detailed
coverage of most
major plastics
processing
techniques,
including
injection
molding,
extrusion, blow
molding, and

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thermoforming.
The Handbook of
Fluorinated
Coatings and
Finishes: The
Definitive
User's Guide is
both a reference
and a tutorial
for
understanding
fluoropolymer
coatings. It
discusses the

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Polypropylene
The Definitive S
Elastics Design
Library

basics of
fluorocoating
formulations,
including
ingredients and
production
processes. Also
covered are the
coating and
curing
processes, and
defects and
trouble-shooting
solutions when

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Polypropylene
things do not

The Definitive S
work as

Plastics Design
expected,

Library
testing

performance, and

sample

commercial

applications. It

addresses

important

questions

frequently posed

by end-user

design

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Polypropylene

engineers,

The Definitive S
coaters, and

Plastic Design

Library
suppliers in

their quest for

superior product

qualities and

shorter product

and process

development

time.

This book

extensively

reviews

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Polypropylene
(PP), the second
most widely
produced
thermoplastic
material, having
been produced
for over 60
years. Its
synthesis,
processing and
application are
still
accompanied by

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Polypropylene

vigorous R&D

The Definitive S
developments

Plastics Design
because the

Library
properties of PP

are at the

borderline

between those of

commodity and

engineering

thermoplastics.

Readers are

introduced to

various

tacticities and

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Polypropylene
polymorphs of
PP, and their
effects on
structural
properties.

Further, the
book addresses
the control of
optical
properties using
nucleants,
provides
strategies for
overcoming the

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Polypropylene

limited

The Definitive S
cold/impact

resistance of

Library
PP, examines in

detail the

effects of

recycling, and

presents

guidelines for

the property

modification of

PPs through

foaming, filling

and reinforcing

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Polypropylene
with respect to
The Definitive S
target

applications.

Special
Library

attention is

paid to

descriptions and

models of

properties as a

function of

morphological

variables. Last

but not least,

the book

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Polypropylene

suggests

The Definitive S

potential

Practical Design

practical

Library applications of

PP-based

systems,

especially in

the packaging,

appliances, buil

ding/constructio

n, textile and

automotive

sectors. Each

chapter, written

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Polypropylene

by

internationally

respected

scientists,

reflects the

current state-of-

art in the

respective field

and offers a

vital source of

information for

students,

researchers and

engineers

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interested in the morphology, properties, testing and modeling of PP and PP-based systems. The content is indispensable to the appropriate application of PPs and related composites.

Polyolefin

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Polypropylene
Fibres

The Definitive S
Fluoropolymer

Applications in

Library
the Chemical

Processing

Industries

Encyclopedia of

Polymer

Applications, 3

Volume Set

Design and

Manufacturing of

Plastics

Products

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Polypropylene

Effect of
Temperature and
Other Factors on

Plastics and

Elastomers

Morphology,

Blends and

Composites

This widely respected

and frequently

consulted reference

work provides a

wealth of information

and guidance on

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industrial chemistry
and biotechnology.
Industries covered
span the spectrum
from salt and soda
ash to advanced dyes
chemistry, the nuclear
industry, the rapidly
evolving
biotechnology
industry, and, most
recently,
electrochemical
energy storage

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devices and fuel cell science and technology. Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production, pesticide manufacture and use, and the principles of sustainable chemical practice, referred to as green chemistry.

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Finally, considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness. It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so

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knowledgeably.
Fluoroplastics,
Volume 1, compiles in
one place a working
knowledge of the
polymer chemistry
and physics of non-
melt processible
fluoropolymers with
detailed descriptions
of commercial
processing methods,
material properties,
fabrication and

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handling information, technologies, and applications. Also, history, market statistics, and safety and recycling aspects are covered. Both volumes contain a large amount of specific property data which is useful for users to readily compare different materials and align

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Polypropylene
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Plastics Design
material structure with
end use applications.

Volume 1

concentrates mostly
on

polytetrafluoroethylen
e and polychlorotrifluo
roethylene and their
processing

techniques – which
are essentially non-
melt-processes –
used across a broad
range of industries

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Polypropylene
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including automotive, aerospace, electronic, food, beverage, oil/gas, and medical devices. Since the first edition was published many new technical developments and market changes have taken place and new grades of materials have entered the market. This new

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edition is a thoroughly updated and significantly expanded revision covering new technologies and applications, and addressing the changes that have taken place in the fluoropolymer markets.

Fluoroplastics,
Volume 1 is an all-encompassing

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Polypropylene
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handbook for non-
melt processible
fluoropolymers – a
unique and invaluable
reference for
professionals in the
fluoropolymer industry
and fluoropolymer
application industries.
Exceptionally broad
and comprehensive
coverage of non-melt
processable
fluoropolymers

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Polypropylene processing and applications. Practical approach, written by long-standing authority in the fluoropolymers industry. New technologies, materials and applications are included in the new edition.

The only source that focuses exclusively

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on engineering and technology, this important guide maps the dynamic and changing field of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources--directories, encyclopedias,

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yearbooks,
dictionaries,
databases, indexes,
libraries, buyer's
guides, Internet
resources, and more.
Substantial emphasis
is placed on digital
resources. The author
also discusses how
engineers and
scientists use
information, the
culture and

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generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources,

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professional and trade
associations, and
education and career
resources. Engineers,
scientists, librarians,
and other information
professionals working
with engineering and
technology
information will
welcome this
research

PolypropyleneThe
Definitive User's

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Guide and

The Definitive S
Databook William

Andrew Design

Polypropylene

Handbook of Plastics

Joining

Products and

Processes

Applications of

Fluoropolymer Films

An A-Z reference

Why is it important

to get to equilibrium

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and how long does it take? Are there problems running polypropylene profiles on a single screw extruder? Does the job involve compounding color concentrates on a corotating twin screw extruder? This unique reference work is

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designed to aid operators, engineers, and managers in quickly answering such practical day-to-day questions in extrusion processing. This comprehensive volume is divided into 7 Parts. It contains detailed

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reference data on such important operating conditions as temperatures, start-up procedures, shear rates, pressure drops, and safety. This reference is a practical guide to extrusion bringing together both the equipment and

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Polypropylene
materials

The Definitive S
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processing aspects.

It provides basic
and advanced

topics about the
thermoplastics

processing in the
extruder, for

reference and

training. Parts 1 û 3,

emphasize the

fundamentals, for

operators and

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engineers, of
polymeric materials
extrusion
processing in single
and twin screw
extruders. Parts 4 û
7 treat advanced
topics including
troubleshooting,
auxiliary equipment,
and coextrusion for
operators,
engineers, and

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managers.

Extensive

applications in Part

7 cover such

contemporary areas

as compounding,

blown film, extrusion

blow molding,

coating, foam, and

reprocessing. Each

chapter includes

review topics.

Part of a series of

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Polypropylene
The Definitive S
Plastics Design
Library
Fatigue and
Tribological
Properties of
Plastics and
Elastomers provides
a comprehensive
collection of
graphical multipoint
data and tabular
data covering the

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Polypropylene
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fatigue and tribological performance of plastics. The handbook is structured by grouping together plastics of similar polymer types into ten chapters. Each of these chapters is split into two sections: Fatigue

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Polypropylene
The Definitive S
Plastics Design
Library

Properties and
Tribological
Properties, and
together they
provide a
compendium of
several hundred
graphs and charts,
supplying the core
data needed by
engineers and
scientists on a day-
to-day basis. The

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Polypropylene
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data for this third edition has been updated to cover upwards of five years since the previous edition was published, and also includes an entirely new chapter covering sustainable and biodegradable polymers. The book also includes an

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Polypropylene

extensive

The Definitive S

introductory section

Plastics Design

Library

covering fatigue,

what it is and how it

is measured; the

fundamentals of

tribology; polymer

chemistry and

plastics

composition. These

chapters also

provide readers with

a full understanding

Page 113/230

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Polypropylene
The Definitive S
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of the data section,
and how to put it to
use as a hard-
working information
tool.

Recent years have
witnessed the sheer
growth of
macromolecular
concepts and nanot
echnology-based
innovations in
polymer science.

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Polypropylene
The Definitive S
Plastics Design
Library

Processing and
Characterization of
Multicomponent
Polymer Systems is
a collection of
contributions from
materials science
experts across the
globe. The
fabrication and
characterization of
polymeric systems
are still important in

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The Definitive S
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