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Acid Dow

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***Polymer Latices,
Second Edition is
a comprehensive
update of the
previous edition,
High Polymer
Latices, taking
into account the***

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***many
developments
since it was first
published in
1966. It is the
only publication
to provide such
an outstanding
and extensive
review of latex
science and
technology, from***

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***background
theory and
principles, to
modern day
applications. It
will prove an
invaluable
reference source
for all those
working in the
area of latex
science and***

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***technology, such
as colloid
chemists,
polymer
scientists, and
materials
processors.
This report
presents a cost
analysis of n-
Butyl Acrylate
production from***

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***chemical grade
propylene and n-
butanol The
process
examined is a
typical propylene
oxidation,
followed by a
typical
esterification
process. In this
process,***

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propylene passes through a two-stage vapor phase oxidation to generate an acrylic acid-containing gas, from which acrylic acid is recovered via absorption in water. The

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aqueous acrylic acid solution is purified via light solvent extraction to ester-grade acrylic acid to be combined with n-butanol in a esterification reactor to generate crude a

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***crude ester
stream that is
further purified to
generate high-
purity butyl
acrylate. This
report was
developed based
essentially on the
following
reference(s): (1)
"Acrylic Acid",***

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***Ullmann's
Encyclopedia of
Industrial
Chemistry, 7th
edition (2)
"Acrylic Acid and
Derivatives", Kirk-
Othmer
Encyclopedia of
Chemical
Technology, 5th
edition***

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Keywords:

Propene, Air

Oxidation,

Propenoic Acid,

Nippon Shokubai,

Rohm & Haas,

Dow,

Esterification,

Nippon Shokubai,

Mitsubishi, BASF

Lubricants are

essential in

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engineering, however more sustainable formulations are needed to avoid adverse effects on the ecosystem. Bio-based lubricant formulations present a promising

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solution.

***Biolubricants:
Science and
technology is a
comprehensive,
interdisciplinary
and timely review
of this important
subject. Initial
chapters address
the principles of
lubrication,***

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***before
systematically
reviewing fossil
and bio-based
feedstock
resources for
biodegradable
lubricants.
Further chapters
describe
catalytic, (bio)
chemical***

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***functionalisation
processes for
transformation of
feedstocks into
commercial
products,
product
development,
relevant
legislation, life
cycle
assessment,***

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major product groups and specific performance criteria in all major applications. Final chapters consider markets for biolubricants, issues to consider when

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***selecting and
using a lubricant,
lubricant
disposal and
future trends.
With its
distinguished
authors,
Biolubricants:
Science and
technology is a
comprehensive***

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reference for an industrial audience of oil formulators and lubrication engineers, as well as researchers and academics with an interest in the subject. It provides an

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***essential
overview of
scientific and
technological
developments
enabling the cost-
effective
improvement of
biolubricants,
something that is
crucial for the
green future of***

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***the lubricant
industry. A
comprehensive,
interdisciplinary
and timely review
of bio-based
lubricant
formulations
Addresses the
principles of
lubrication
Reviews fossil***

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***and bio-based
feedstock
resources for
biodegradable
lubricants***

***Film Properties of
Plastics and
Elastomers, 2nd
Edition***

***Technology
Entrepreneurship
: A Treatise on***

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***Entrepreneurs
and
Entrepreneurship
for and in
Technology
Ventures. Vol 2.
Sustainable
Value Creation in
the Fine and
Speciality
Chemicals
Industry***

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***How to Profit
from Event-
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Series***

**This
extensively
revised and
updated
second edition**

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**of the only
data handbook
available on
the
engineering
properties of
commercial
polymeric
films details
many physical,
mechanical,
optical,**

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**electrical, and
permeation
properties
within the
context of
specific test
parameters,
providing a
ready
reference for
comparing
materials in**

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**the same
family as well
as materials in
different
families. Data
are presented
on the
characteristics
of 47 major
plastic and
elastomer
packaging**

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**materials. New
to this edition,
the resin
chapters each
contain textual
summary
information
including
category,
general
description,
processing**

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**methods,
applications,
and other facts
as appropriate,
such as
reliability,
weatherability,
and regulatory
approval
considerations
for use in food
and medical**

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**packaging.
Extensive
references are
provided. The
resin chapter
material
supplier trade
name product
data are
presented in
graphical and
tabular**

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**format, with
results
normalized to
SI units,
retaining the
familiar
format of the
1st edition and
allowing easy
comparison
between
materials and**

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**test
conditions.
Existing
surfactants
directories
tend to focus
on product
identification
by tradename,
producer or
chemical type,
enabling the**

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**user only to
identify
product
equivalents
and surfactant
suppliers.
Application
information,
where
available, is
usually scant
or given as a**

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**footnote. This
new directory
approaches
the
identification
of surfactants
primarily from
the
applications
standpoint.
Hence the
formulator or**

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**end-user can
readily assess
the products
available for
use in a
particular
industry sector
and select
materials
giving the
required
surface active**

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properties. For example, a formulator of agrochemicals for crop protection can turn to the section which refers to surfactants for use in the agrochemical

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**industry and
then easily
identify a wetter/dispersant
system for the
production of
water
dispersible
granules.
Information is
presented in
an alternative**

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format in the second part of the directory, which will help the user to identify swiftly products for a particular application by surface active properties. It is difficult, if

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**not
impossible, to
identify an
industry which
does not
directly or
indirectly
utilise
surfactants.
Therefore it
has proved
necessary to**

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**simplify
industry
classifications
to encompass
a variety of
uses under
broader sector
titles. The
industry
classifications
adopted here
have been**

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**used in many
previous
publications
and papers,
and define as
accurately as
possible the
major
industries and
applications
serviced by the
surfactant**

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industry. The editors have been particularly pleased with the support and response of the industry in the supply of data. This report presents a cost

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Acid Dow

**analysis of
Ester-Grade
Acrylic Acid
(EAA)
production
from chemical
grade (CG)
propylene The
process
examined is a
typical
propylene**

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oxidation. In this process, propylene passes through a two-stage vapor phase oxidation to generate an acrylic acid-containing gas, from

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which acrylic acid is recovered via absorption in water. The aqueous acrylic acid solution is purified via light solvent extraction to Ester-grade

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Acrylic Acid (EAA), which is used in the production of acrylic esters. This report was developed based essentially on the following reference(s): "Acrylic Acid",

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Acid Dow

**Ullmann's
Encyclopedia
of Industrial
Chemistry, 7th
edition**

**Keywords:
Propene, Air
Oxidation,
Propenoic
Acid, Nippon
Shokubai,
Rohm & Haas,**

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**Dow
Preliminary
Report on U.S.
Production of
Synthetic
Organic
Chemicals
United States
Production
and Sales
Advanced
Cleaning**

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**Product
Formulations
Decisions and
Orders of the
National Labor
Relations
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Products and
Processes**

The Science and
Technology of
Flexible

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Packaging:
Multilayer Films
from Resin and
Process to End
Use, Second
Edition provides
a comprehensive
guide on plastic
films in
flexible
packaging,
covering
scientific
principles,

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materials
properties,
processes and
end use
considerations.
Sections discuss
the science of
multilayer films
in a concise and
impactful way,
presenting the
fundamental
understanding
required to

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improve product design, material selection and processes. In addition, the book includes information on why one material is favored over another and how film or coating affects material properties.

Descriptions and

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analysis of key properties of packaging films are provided from engineering and scientific perspectives. With essential scientific insights, best practice techniques, environmental sustainability

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information and key principles of structure design, this book provides information aids in material selection and processing, how to shorten development times and deliver stronger products, and

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ways to enable engineers and scientists to deliver superior products with reduced development time and cost.

Provides essential information on all aspects of multilayer films in flexible

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packaging,
including
processing,
properties,
materials and
end use Bridges
the gap between
scientific
principles and
practical
challenges
Includes
explanations to
assist

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practitioners in
overcoming
challenges
Enables the
reader to
address new
challenges, such
as design for
sustainability
and eCommerce
Alphabetical
arrangement of
entries that
reflect current

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topics of interest to scientists, chemists, and engineers, e.g., health, safety, toxicology, and new materials. Comprehensive coverage. Each entry consists of lengthy signed article, with

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illustrations

and

bibliography.

Glacial Acrylic

Acid from Crude

Acrylic Acid -

Cost Analysis -

Acrylic Acid

E52A Intratec

Dow's Chemical

Exposure Index

Guide

Glacial Acrylic

Acid from Crude

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Acrylic Acid -
Cost Analysis -
Acrylic Acid
E52A

Science and
Technology
Official Gazette
of the United
States Patent
Office

Merger Arbitrage
*Organic
solvents*

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represent a class of compounds whose utility is central to industrial and academic chemistry. The impact of solvents in everyday products such as paints,

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*surface
coatings,
adhesives,
pharmaceuticals
and cleaning
products is
enormous, and
there is
therefore much
interest in
their use. This
volume is
divided into*

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two parts. Part 1 provides an authoritative review of the science and technology of solvents and related issues. The topics covered are solvency and its measurement,

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*flammability,
health and
toxicology,
environmental
issues,
legislative
information,
transport,
storage,
recovery and
disposal, and a
review of
solvent*

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*applications.
Part 2 provides
reliable, up-
to-date data,
based on
information
provided by
manufacturers
and suppliers
and is
presented as a
database of
over 350*

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*solvent
products,
subdivided by
solvent group.
The data are
also presented
in key
parameter
tables,
covering
boiling points,
melting points,
evaporation*

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*information,
vapor pressure,
flash points,
solubility
parameters,
auto ignition
temperatures,
and names and
addresses of
manufacturers,
with trade
names. In
recent years*

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*there has been
increased
interest in
health and
safety,
environmental
issues and
aspects of the
legislative
control of
chemicals,
including
solvents, and*

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the choice of a given solvent has therefore become more complex. The Directory of Solvents aims to provide in one place a broad spread of physico-chemical data, together with

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*transport,
safety,
environmental
and
classification
information
provided by
major European
and U.S.
suppliers and
manufacturers
of industrial
organic*

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solvents.

*A detailed look
at an important
hedge fund
strategy*

*Written by a
fund manager
who invests
solely in
merger*

*arbitrage, also
referred to as
risk arbitrage,*

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*and other event-
driven
strategies,
Merger
Arbitrage is
the definitive
book on how
this
alternative
hedge fund
strategy works.
Initial
chapters are*

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*dedicated to
the ins and
outs of the
strategy-cash
mergers versus
stock for stock
mergers, legal
aspects of
mergers, and
pitfalls of the
merger
process-while
later chapters*

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focus on giving the reader sound advice for integrating merger arbitrage into an investment portfolio.

Merger

Arbitrage helps readers understand

leverage and

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*options,
shorting
stocks, and
legal aspects
of merger
arbitrage,
including
seeking
appraisal or
filing lawsuits
for inadequate
merger
consideration.*

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*For those
looking to gain
an edge in the
merger
arbitrage
arena, this
book has
everything they
need to
succeed. Thomas
F. Kirchner,
CFA (New York,
NY), is the*

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founder and portfolio manager of Pennsylvania Avenue Funds (www.pennavefunds.com), which invests in merger arbitrage and other event-driven strategies.

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*Dow Chemical
developed the
Chemical
Exposure Index
to help its
engineers
design and
operate safer
facilities.
This seminal
guide to rating
the relative
acute health*

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*hazard
potential of a
chemical
release to
workers and the
neighboring
community is
available to
the chemical
process
community. The
index uses a
methodology for*

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*estimating
airborne
quantity
released, which
allows for more
sophisticated
process
analyses.*

Special

Details:

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*and the Dow
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Explosion Index
Hazard
Classification
Guide and the
are designed to
complement each
other, helping
engineers
evaluate the
total hazard
potential of*

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*new
installations
These guides
are invaluable
resources for
process design
engineers,
plant managers,
and others
involved in the
safe design and
operation of
chemical*

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plant's safety
analysis only h
alfway--Purchas
e both books
and take \$10
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*Process to End
Use*

*Alkadienes—Adva
nces in*

*Research and
Application:*

2013 Edition

1975: July-

December: Index

Butyl Acrylate

Production from

Propylene and

Butanol - Cost

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*Analysis -
Butyl Acrylate
E21A*

*Responsive
Membranes and
Materials*

**This report
presents a cost
analysis of Ester-
Grade Acrylic
Acid (EAA)
production from
propane The**

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process examined is a novel process for propane oxidation. In this process, propane is fed to an oxyde hydrogenation reactor in the presence of steam to form propylene. The pr opylene-containing gas

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passes through a two-stage vapor phase oxidation to generate an acrylic acid-containing gas, from which acrylic acid is recovered via absorption in water. The aqueous acrylic acid solution is

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purified via light solvent extraction to Ester-grade Acrylic Acid (EAA). This report was developed based essentially on the following reference(s): (1) "Acrylic Acid and Derivatives", Kirk-Othmer

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***Encyclopedia of
Chemical
Technology, 5th
edition (2) US
Patent 6492548,
issued to Union
Carbide in 2002
Keywords:
Propene, Air
Oxidation,
Propenoic Acid,
Nippon Shokubai,
Rohm & Haas,***

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Dow

***The development
of new
multifunctional
membranes and
materials which
respond to
external stimuli,
such as pH,
temperature,
light,
biochemicals or
magnetic or***

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***electrical signals,
represents new
approaches to
separations,
reactions, or
recognitions.
With multiple
cooperative
functions,
responsive
membranes and
materials have
applications***

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which range from biopharmaceutical, to drug delivery systems to water treatment. This book covers recent advances in the generation and application of responsive materials and includes:

Development and

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Acid Dow

***design of
responsive
membranes and
materials Carbon
nanotube
membranes
Tunable
separations,
reactions and
nanoparticle
synthesis
Responsive
membranes for***

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***water treatment
Pore-filled
membranes for
drug release Biol
ogically-inspired
responsive
materials and
hydrogels
Biomimetic
polymer gels
Responsive
Membranes and
Materials***

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provides a cutting-edge resource for researchers and scientists in membrane science and technology, as well as specialists in separations, biomaterials, biotechnology, drug delivery, polymers, and

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***functional
materials.***

***This report
presents a cost
analysis of
Glacial Acrylic
Acid production
from crude
acrylic acid. The
process examined
consists of a
typical distillatio
n/purification***

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process. This report was developed based essentially on the following reference(s):
"Acrylic Acid and Derivatives", Kirk-Othmer Encyclopedia of Chemical Technology, 5th edition
Keywords:

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***Propenoic Acid,
Commercial
Grade Acrylic
Acid, Propylene
Oxidation, Rohm
and Haas, Dow,
Flocculant Grade,
GAA-FG
USITC
Publication
Trade Promotion
Series
Encyclopedia of***

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Chemical Technology V. 350, June 8, 2007, Through September 17, 2007 Patents

Your personal
Ullmann's: Chemical
and physical
characteristics,
production processes
and production figures,

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main applications, toxicology and safety information are all to be found here in one single resource - bringing the vast knowledge of the Ullmann's Encyclopedia to the desks of industrial chemists and chemical engineers. The ULLMANN'S perspective on polymers and plastics brings reliable information on

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more than 1500
compounds and
products straight to your
desktop Carefully
selected “best of”
compilation of 61
topical articles from the
Encyclopedia of
Industrial Chemistry on
economically important
polymers provide a
wealth of chemical,
physical and economic
data on more than 1000

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different polymers and hundreds of modifications Contains a wealth of information on the production and use of all industrially relevant polymers and plastics, including organic and inorganic polymers, fibers, foams and resins Extensively updated: more than 30% of the content has been added or updated since

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the launch of the 7th
edition of the
Ullmann's encyclopedia
in 2011 and is now
available in print for the
first time 4 Volumes
Alkadienes—Advances
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Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Alkadienes—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists,

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engineers, analysts,
research institutions,
and companies. All of
the content is from peer-
reviewed sources, and
all of it is written,
assembled, and edited
by the editors at
ScholarlyEditions™ and
available exclusively
from us. You now have
a source you can cite
with authority,
confidence, and

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The global fine and speciality chemicals industry is a vital segment within the chemical value chain, catering to a multitude of societal and industrial needs. Regulatory, sustainability and consumer forces have

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been constantly shaping the business fundamentals of this industry.

Developing value creation strategies, which embed economic, environmental and social sustainability components, will need a comprehensive assessment of business, scientific and technological challenges facing the

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industry. Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry. It discusses innovative strategies in feedstocks, R&D,

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technology, manufacturing, resource management and the supply chain as well as the significance of the bio-based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry.

Topics covered include:

- Transformation in the fine and speciality

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chemicalsbusiness •

Sustainable

management: evolution,

transitions andtools •

Research and

technology directions •

Resource optimization

strategies • Bio-based

chemicals, specialities

and polymers •

Sustainable practices in

the fine and speciality

chemicalsindustry •

Sustainable value

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creation strategies
Sustainable Value
Creation in the Fine and
Speciality Chemicals
Industry presents a
comprehensive
overview of strategic
options for
sustainability
management in
the global fine and
speciality chemicals
industry. It will be
a valuable resource for

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chemists and chemical engineers involved in the design and development of economically, environmentally and socially sustainable practices for the future.

Directory of Solvents

Polymer Latices

Acrylic Acid Production from Propylene - Cost Analysis - Acrylic Acid

E11A

The Science and

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Technology of Flexible
Packaging

Quality Beyond Six
Sigma

Each volume of this
series contains all
the important
Decisions and
Orders issued by
the National Labor
Relations Board
during a specified
time period. The

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entries for each case list the decision, order, statement of the case, findings of fact, conclusions of law, and remedy. This book presents more than 435 up-to-date advanced cleaning product formulations for household,

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industrial and automotive applications. All formulations are completely different from those in other volumes.

Six Sigma is a data-driven management system with near-perfect performance that is a statistical target of operating

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with no more than 3.4 defects per one million chances. Six sigma has both created avid interest and raised concerns among executives and its practitioners. This is all very well for multinationals like Motorola or General Electric but how can it help

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small and medium-sized enterprises or the service

industry? How do you ensure that solutions stick?

Quality Beyond Six Sigma responds to this challenge and provides a practical implementation of the issues of Six Sigma, Lean

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Enterprise and Total Quality and aligns the 'hard' sigma message with the softer sustainable 'strategic issues'. The result is FIT SIGMA. The authors utilize major and minor case studies to support principles and learnings of FIT SIGMA and include

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review examples
and self-
assessment that
underpin the
sustainable process.
The three major
case studies are
contributed by
General Electric,
Dow Chemical and
Seagate
Technology. Senior
Executives and

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Managers of
organizations of all
types and sizes,
Management
Consultants and
Students of all
disciplines will find
this book a
stimulating guide to
quality and
operational
excellence.
Science and

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Technology Volume
3: Applications of
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United States
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