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Plastics and Sustainability

2011-11-16

clearly lays out the issues related to plastics effects on the environment while also serving as a practical non academic guide for making sustainability decisions about plastics recycling and the newest bio based plastics company managers product developers policy makers environmental researchers and plastics industry engineers are under increasing pressure to find ways of minimizing the environmental footprint of plastic products this accessible book is designed to help readers understand the life cycle impacts of various plastics clarifying the technical research and practical arguments to show when bio based and recycled plastics might be useful options for reducing the overall energy consumption greenhouse gas emissions and waste associated with traditional plastics plastics and sustainability compares traditional fossil fuel based plastics with bio based plastics in terms of properties environmental impacts and costs indicating what the most effective approaches could be for using recycled biodegradable or various bio based materials the book makes objective comparisons between bioplastics and all commonly used plastics focusing on how they affect production economics product requirements and retailer and consumer needs it incorporates research concerning life cycle assessment production techniques and commercial applications and presents green guidelines about product design recycling processing efficiency and material selection the book also reports on recent industry developments and commercial trends in an effort to synthesize conclusions that are necessary for finding the right balance between bio based and fossil fuel based plastic products check out the author s blog at [plastech biz blog](#)

Plastics and the Environment

1994

plastics possess some special characteristics but most of the potential environmental problems and their solutions are common to other materials and industries this review considers their environmental impact in terms of industrial systems e g eco profile and life cycle systems and looks at energy consumption and recovery as well as recycling an additional indexed section containing several hundred abstracts from the rapra polymer library database provides useful references for further reading

Plastics and Sustainability

2022-11-26

plastics and sustainability practical approaches provides a broad overview of sustainability as applied to plastics offering a range of opportunities and solutions to be applied in an academic or industrial setting the book begins by introducing the challenges and opportunities relating to plastics and environmental sustainability this is followed by detailed eco profiles organized by polymer category subsequent chapters explore various approaches

to plastics sustainability with in depth coverage of incineration technology for energy recovery pyrolysis for chemical recovery blending technology design packaging circular economy and biopolymers finally international policies are summarized the book aims to provide a broad source of information and a range of options to readers on how to evaluate and improve the sustainability of plastics with analyses of the advantages and drawbacks of different technologies and materials authored by two professional engineers with substantial experience in industry and consultancy this is a valuable resource for all those looking for a wide ranging overview of sustainability as applied to plastics including researchers and advanced students from a range of materials science and engineering disciplines and engineers manufacturers scientists and r d professionals from a range of industries offers detailed information on plastics eco profiles biopolymers related challenges and design and circular economy considerations presents the latest processing technologies for plastic waste covering incineration and energy recovery pyrolysis and chemical recovery and blending includes practical guidance on recycling technology supply chain management costs societal impact and international policy

Plastics and the Environment

2010-11-02

this multi authored book from some of the leading researchers and practitioners on this topic is a distinctive look at how to maximize profitability through environmental compliance in the plastics supply chain a topic of great and ever growing interest in the industry this distinguished assembly of authors from across the global and from both industry and academia provides the reader with a distinctive perspective into this topic plastics and the environment provides readers with a look into the environmental issues of plastics products throughout the complete product lifecycle from material selection to product design to recycling topics covered include plastics materials and sustainability environmental design for plastics products energy efficiency plastics recycling and technology and life cycle assessment

Sustainable Plastics

2022-10-11

enables readers to understand the what why and how behind using sustainable plastics in manufacturing operations the impact of 50 years of unbridled plastics production use and disposal is now becoming well known and documented plastics made from non renewable petroleum and natural gas resources threaten the environment human health species maintenance and the very life of the ocean this book helps readers understand the ability of plastics to be sustainable and goes over the plastic products which have a lower carbon footprint lower waste and lower pollution the well qualified author s unique perspective puts a special focus on comprehensive coverage of environmental impacts of plastics including life cycle assessments lca and sustainability strategies related to biobased plastics e g corn recycled

plastics and petroleum based plastics other samples topics covered in the book include end of life options for petroleum and biobased plastics including mechanical recycling chemical recycling and composting astm biodegradation standards for compost marine anaerobic digestion and landfill environments polymer processing including injection molding blow molding extrusion and compression molding environmental data and coverage of petroleum plastics sustainable composites and new information on bio based plastics the book serves as an invaluable resource for plastics engineers materials engineers and all professionals in related disciplines looking to understand and apply the usage of sustainable plastics in many different types of manufacturing operations

Plastic Waste Markets

2018-05-29

this project examines the market for recycled plastic with a primary focus on post consumer plastic waste because this is considered to be the more problematic the market for plastic waste generated in manufacturing and production is relatively strong and well functioning as a consequence the majority of plastic waste from manufacturing and production is recycled post consumer waste is much less homogenous it comes from a wide variety of sources and contains a wide variety of plastics and tends to be difficult to collect sort and recycle this project identifies barriers to further utilisation of recycled plastics and analyses a collection of policy tools that could be used to support and expand that market

Plastics and Environmental Sustainability

2015-02-11

survey s the issues typically raised in discussions of sustainability and plastics discusses current issues not covered in detail previously such as ocean litter migration of additives into food products and the recovery of plastics covers post consumer fate of plastics on land and in the oceans highlighting the environmental impacts of disposal methods details toxicity of plastics particularly as it applies to human health presents a clear analysis of the key plastic related issues including numerous citations of the research base that supports and contradicts the popularly held notions

International Standards for Plastics and Plastics Products

1976

this report covers the consumption of plastics in europe how much waste plastic is produced a summary of recent legislation and the various methods of dealing with plastic wastes the plastics recycling industry in europe is then reviewed with an in depth look at the relevant legislation followed by a summary of the situation in most of the major european countries the major

end use sectors for plastics and the problem of waste plastics in each are examined in the final section

Plastics Product Recycling

2000

this book written by a multidisciplinary team of authors comprising scientists artists and communicators explores one of the most pressing issues of our time the menace plastics pose to marine environments and organisms it takes readers on a journey that begins on the beaches of galicia where the beach litter formed the starting point for an exhibition that combines art and science to alert the audience to the urgent need for action the journey culminates with a short plastic story which reveals a disturbing vision of the future significance of plastics for humans and an example of how comics can deliver information to a younger audience along the way there is plenty of fascinating science such as insights into the impacts of plastics and microplastics the new marine ecosystem known as the plastisphere and the current status of the oceans from the arctic to the mediterranean the book also explores the historical developments sustainable solutions including the use of circular economy methodologies and protective measures like those being tried in china and the far east lastly it describes the role played by rivers as transport vectors for plastic with special reference to the danube and to complete the picture since most of the plastic is of terrestrial origin it investigates problems related to microplastics in soils

Mare Plasticum - The Plastic Sea

2020-07-23

the indian plastic and polymer industry has taken great strides in the last few decades the industry has grown to the status of a leading sector in the country with a sizable base the material is gaining notable importance in different spheres of activity and the per capita consumption is increasing at a fast pace continuous advancements and developments in polymer technology processing machineries expertise and cost effective manufacturing is fast replacing the typical materials in different segments with plastics plastics play a very important role in our daily lives throughout the world the demand for plastic particularly plastic packaging continues to rapidly grow polymer processing industry deals with the manufacture and production of polymer and synthetic substances for example acrylic plastics poly methyl methacrylate poly vinyl chloride pvc polyamides polyesters cellulose plastics etc plastic is incredibly versatile and can be made from different ingredients moulded into any shape and put to a huge range of uses across industry and the rest of society polymer energy system is an award winning innovative proprietary process to convert waste plastics into renewable energy polymers are the most rapidly growing sector of the materials industry no wonder polymers are found in everything from compact discs to high tech aerospace applications on the basis of value added indian share of plastic products industry is about 0.5% of national gdp this book majorly deals with properties and applications of engineering the strength of thermoplastic composites and the application of

thermoplastic structural composites applications of differential scanning calorimetry and polymer characterization polymer degradation and stabilization advances in photo degradation and stabilization of polyurethanes and so on this book also consists of raw material suppliers for plastic and plastic products manufacturers of plastic processing machinery plastics processing machinery and equipment foreign machinery and equipment for plastic converting extruders and extrusion lines injection moulding machines and so on this book offers in standardized and readily accessible information on the synthesis structure properties and applications of the most important polymeric materials it has been designed as a text giving a balanced coverage of the science and technology of polymers finding major applications plastics this book is very useful for industrialists consultants research scholars and institutes

Modern Technology of Plastic & Polymer Processing Industries

2003-06-04

plastics are everywhere we have thousands of uses for plastics cars computer clothes toys and packaging are just some of the uses plastics play a vital part in our everyday lives contents what is a plastics where do plastics made how are

Plastics and the Environment

2017-12-12

after the birth of their son jay sinha and chantal plamondon set out on a journey to eliminate plastic baby bottles as the canadian government banned bpa when they found it was difficult to procure glass baby bottles jay and chantal made it their mission to not only find glass and metal replacements for plastic but to make those products accessible to the public as well printed on wood free fsc sustainable certified paper and with bpa free ink life without plastic strives to create more awareness on the issue of bpa polycarbonates and other single use plastics and provides readers with safe reusable and affordable alternatives while plastic has its uses in technology medical and some products around the home certain single use plastics release chemicals when put in contact with food and water these disposable plastics are also found in produce and cleaning products jay and chantal show readers how to analyze their personal plastic use find alternatives and create easy replacements in this step by step guide get your family healthier spread consciousness and create positive reflection on you for helping the environment by taking action

Life Without Plastic

2021-07-19

plastic plays a vital role in today s world but has become increasingly

problematic plastics and microplastics a reference handbook discusses the history and evolution of plastic and its many uses both in the united states and around the world beginning with a history of plastic from the first scientific discovery of the material to its diversity of forms and uses in the present day plastics and microplastics a reference handbook discusses the history and evolution of plastic and its many uses both in the united states and around the world importantly it delves into the problems and controversies concerning plastic and microplastics such as the pollution of oceans rivers and streams its exceptionally long shelf life its contribution to air pollution and ingestion of microplastics by marine life one of the most valuable aspects of the book is its survey of the history of plastics and microplastics conducted in a manner that helps readers to identify key issues to address moreover it discusses both implemented and proposed solutions a perspectives chapter includes a broad range of voices allowing crucial diverse perspectives to round out the author s expertise

Plastics and Microplastics

2021-12-06

this report presents the results of a study on agricultural plastic products used globally in a range of different value chains the study assessed the types and quantities of plastic products their benefits and trade offs sustainable alternative products or practices were identified for products assessed as having high potential to cause harm to human and ecosystem health or having poor end of life management the report is based on data derived from peer reviewed scientific papers governmental and non governmental organization s research reports as well as from industry experts including relevant trade bodies the report s recommendations were verified during extensive consultation and review with fao and external experts the authors hope that the study will provide an impetus for discussion about the use of agricultural plastics their benefits and trade offs and ultimately stimulate action to reduce their potential for harm to human health and the environment

Assessment of agricultural plastics and their sustainability: A call for action

2006-10-01

biodegradable plastics made with plant based materials have been available for many years the term biodegradable means that a substance is able to be broken down into simpler substances by the activities of living organisms and therefore is unlikely to persist in the environment there are many different standards used to measure biodegradability with each country having its own the requirements range from 90 per cent to 60 per cent decomposition of the product within 60 to 180 days of being placed in a standard composting environment they may be composed of either bio plastics which are plastics whose components are derived from renewable raw materials or petroleum based plastics which contain additives biodegradability of plastics is dependent on the chemical structure of the material and on constitution of the final

product not just on the raw materials used for its production polyesters play a predominant role as biodegradable plastics due to their potentially hydrolysable ester bonds bio based polymers are divided into three categories based on their origin and production polymer directly extracted from biomass polymers produced by classical chemical synthesis using renewable biomass monomer and polymers produces by microorganisms or genetically modified bacteria in response to public concern about the effects of plastics on the environment and in particular the damaging effects of sea litter on animals and birds legislation is being enacted or is pending in many countries to ban non degradable packing finishing nets etc this book basically deals with biodegradable plastics developments and environmental impacts hydro biodegradable and photo biodegradable starch synthetic aliphatic polyester blends difference between standards for biodegradation polybutylene succinate pbs and polybutylene recent developments in the biopolymer industry recent advances in synthesis of biopolymers by traditional methodologies polymers environmentally degradable synthetic biodegradable polymers as medical devices polymers produced from classical chemical synthesis from bio based monomers potential bio based packaging materials conventional packaging materials environmental impact of bio based materials biodegradability and compostability etc environmentally acceptable degradable polymers have been defined as polymers that degrade in the environment by several mechanisms and culminate in complete biodegradation so that no residue remains in the environment the present book gives thorough information to biodegradable plastic and polymers this is an excellent book for scientists engineers students and industrial researchers in the field of bio based materials tags bioplastics and biodegradable plastics biodegradable plastics and polymers biodegradable products biodegradable plastics from waste how to make biodegradable plastic biodegradable plastic bags biodegradable plastic bottles biodegradable plastic manufacture producing biodegradable plastic starch based biodegradable plastics biodegradable plastic packaging bio based biodegradable plastics biobased and biodegradable plastic biodegradable polymers biodegradable polymers plastic biodegradable polymer materials synthetic biodegradable polymers biograde biodegradable polymers production of biodegradable polymers degradation of biodegradable polymers starch based bio plastics biodegradable polyesters polyester based bio degradable polymers polyhydroxyalkanoates phbh polyesters pla polyesters degradation mechanism coated paper agricultural mulch film shopping bags plastic sorting and reprocessing biopolymer industry industrial biopolymer fiber reinforced composites natural polymers environmentally degradable polymers production of environmentally degradation polymers synthetic biodegradable polymers as medical devices natural and synthetic biodegradable polymers degradation of commercial biodegradable commercial biodegradable material biobased packaging materials for food industry bio food packaging compostable packaging bio based materials production of biobased products plastics from potato waste biodegradable plastics from potato waste carbohydrate based polymers synthesis of carbohydrate based polymers synthesis and polymerization of anhydro sugars polymerization of anhydro sugar fungal degradation of carbohydrate linked polystyrenes polyester film manufacturing pet film polyester film casting drawing slitting and winding coating production of multilayer co injection co injection molding injection blow molding injection and co injection preform npcs niir process technology books business

consultancy business consultant project identification and selection
preparation of project profiles startup business guidance business guidance
to clients startup project startup ideas project for startups startup project
plan business start up business plan for startup business great opportunity
for startup small start up business project best small and cottage scale
industries startup india stand up india small scale industries new small
scale ideas for bioplastics and biodegradable plastics industry biodegradable
polymers business ideas you can start on your own indian biodegradable
polymers industry small scale biodegradable plastics industry guide to
starting and operating small business business ideas for biodegradable
plastics how to start biodegradable plastics business starting biodegradable
polymers industry start your own biodegradable plastics business
biodegradable plastics business plan business plan for biodegradable plastics
small scale industries in india biodegradable polymers based small business
ideas in india small scale industry you can start on your own business plan
for small scale industries set up biodegradable plastics profitable small
scale manufacturing how to start small business in india free manufacturing
business plans

The Complete Book on Biodegradable Plastics and Polymers (Recent Developments, Properties, Analysis, Materials & Processes)

2022-08-10

where is the value in the chain pathways out of plastic pollution aims to support policy makers in their efforts to address plastic pollution by examining the economic and financial implications of plastic management the report provides key recommendations on how to create a comprehensive approach to addressing plastic pollution and to help policy makers make informed decisions for plastic pollution management the report brings together new evidence from three analytical undertakings tackling plastic pollution toward experience based policy guidance a review of existing literature and a summary of findings from the ex post analysis of the effectiveness of plastics policies in 10 countries and states and an evidence based policy guidance aimed at policy makers and stakeholders involved in design implementation and evaluation of policies to manage plastic pollution the plastic substitution tradeoff estimator the estimator an innovative model that estimates the external costs of 10 plastic products and their alternatives along their entire life cycle developed and piloted in five countries the estimator can be applied in any country to identify what substitution materials or what combination of them would perform best in a given scenario and to examine tradeoffs between plastics and alternatives to help establish targets for reduction and substitution the plastic policy simulator pps a country level data driven model for policy analysis to better describe the impacts of different policy instruments and policy packages on individual economic agents and on the plastic value chain at large the pps has been developed as a universal model and piloted in indonesia its objective is to support policy makers and others in government industry and civil society in search of policy solutions to stem the flow of plastics by

bringing an evidence based approach to policy

Where Is the Value in the Chain?

2001-11-22

both technically and economically additives form a large and increasingly significant part of the polymer industry both plastics and elastomers since the first edition of this book was published there have been wide ranging developments covering chemistry and formulation of new and more efficient additive systems and the safer use of additives both by processors in the factory and in the wider field as they affect the general public this new edition follows the successful formula of its predecessor it provides a comprehensive view of all types of additives concentrating mainly on their technical aspects chemistry formulation structure function main applications with notes on the commercial background of each the field has been expanded to include any substance that is added to a polymer to improve its use so including reinforcing materials such as glass fibre carbon black and titanium dioxide this is a book which has been planned for ease of use and the information is presented in a way which is appropriate to the users needs

Additives for Plastics Handbook

2017-06-16

film properties of plastics and elastomers fourth edition is the only data handbook available on the engineering properties of commercial polymeric films it details many physical mechanical optical electrical and permeation properties within the context of specific test parameters providing a ready reference for comparing materials in both the same and different families data is presented on the characteristics of major plastic and elastomer packaging materials with the data in this edition updated to cover the five years since the previous edition was published the resin chapters each contain textual summary information including category general description processing methods applications reliability weatherability and regulatory approval considerations for use in food and medical packaging provides an essential reference tool for the workflow of engineers and scientists involved in the plastics industry details a broad range of film properties enabling engineers and professionals to compare and select materials provides a life of product approach with coverage ranging from properties and key concepts through to production and applications

Film Properties of Plastics and Elastomers

1990-01-01

enough plastic is thrown away every year to circle the world 4 times more than 8 million tonnes of plastic enter the oceans each year 300 million tonnes of new plastic is produced every year an estimated 15 51 trillion pieces of plastic now litter the world s oceans 38 5 million plastic bottles are used every day in the uk a million plastic bottles are used per minute

around the world 500 million plastic straws are used per year without big action at the current rate pieces of plastic will outnumber fish in the ocean by 2050 that is the legacy we are leaving our children and grandchildren plastic flows into our lives from every direction and most of it is not recycled instead it is incinerated or ends up in landfill where it will sit for hundreds of years or enters the world's seas where it fragments into tiny pieces to become microplastics the environmental scourge of our times many of us had assumed that governments brands and waste authorities were dealing with plastic on our behalf but the impact of shows such as blue planet along with national beach cleans and high profile campaigns have resulted in a collective wake up call if there were plans and strategies they have not worked as we imagined it would be easy to feel despondent but instead we need to turn our anger and emotion into action starting by making a big dent in our own enormous consumption turning the tide on plastic is here just in time journalist broadcaster and eco lifestyle expert lucy siegle provides a powerful call to arms to end the plastic pandemic along with the tools we need to make decisive change it is a clear eyed authoritative and accessible guide to help us to take decisive and effective personal action because this matters when it comes to single use plastics we are habitual users reaching out for plastic water bottles disposable coffee cups plastic straws and carrier bags multiple times a day if only 12 of us adopt lucy's reduce rethink refill refuse approach we could potentially ditch 3k 15k single items of plastic in a year when we consider our power as influencers whether at school the hairdressers at work or on the bus we suddenly become part of something significant so now is the time to speak up take action and demand the change you want to see in the ocean in the supermarket aisles and on the streets it's time to turn the tide on plastic and this book will show you how

Specifications and Standards for Plastics and Composites

2018-07-26

plastics materials and processes a concise encyclopedia is a resource for anyone with an interest in plastic materials and processes from seasoned professionals to laypeople arranged in alphabetical order it clearly explains all of the materials and processes as well as their major application areas and usages plastics materials and processes a concise encyclopedia discusses and describes applications and practical uses of the materials and processes clear definitions and sufficient depth to satisfy the information seekers needs

Turning the Tide on Plastic

2003-10-10

automotive plastics and composites materials and processing is an essential guide to the use of plastic and polymer composites in automotive applications whether in the exterior interior under the hood or powertrain with a focus on materials properties and processing the book begins by introducing plastics

and polymers for the automotive industry discussing polymer materials and structures mechanical chemical and physical properties rheology and flow analysis in the second part of the book each chapter is dedicated to a category of material and considers the manufacture processing properties shrinkage and possible applications in each case two chapters on polymer processing provide detailed information on both closed mold and open mold processing the final chapters explain other key aspects such as recycling and sustainability design principles tooling and future trends this book is an ideal reference for plastics engineers product designers technicians scientists and r d professionals who are looking to develop materials components or products for automotive applications the book also intends to guide researchers scientists and advanced students in plastics engineering polymer processing and materials science and engineering analyzes mechanical chemical physical and thermal properties enabling the reader to select the appropriate material for specific applications explains polymer processing with thorough coverage of operations across both closed mold and open mold processing provides systematic coverage of materials including commodity and engineering thermoplastics bio based plastics thermosets composites elastomeric polymers and 3d printed plastics

Plastics Materials and Processes

2021-06-23

this policy brief outlines the main findings from the project plastic waste markets overcoming barriers to better resource utilisation the aim of the project is to provide an overview of the key barriers to a stronger and more robust market for recycled plastics and to suggest potential initiatives that could be used to overcome these barriers and strengthen the market the project is part of the market challenges to the nordic prime ministers green growth initiative the nordic region leading in green growth

Automotive Plastics and Composites

2018-05-02

plastics sustainability clearly lays out the thorny and contentious issues that we encounter at the nexus of plastics and sustainability the book serves as a practical guide for making sustainability decisions about how plastics are made and used including current developments in the newest bio based plastics designers marketers academics and engineers will all find something of value in this balanced and thoughtful second edition increased public scrutiny of plastics materials and the plastics industry has led paradoxically to both a deeper understanding and growing confusion about polymers their origins their uses their risks and ultimately their disposal the author makes objective comparisons among major polymer grades and bioplastics including their life cycle assessments and practical performance in commercial applications

Policy Brief – Plastic Waste Markets

2021-03-31

organic reactions thought provoking discussions of the challenges posed by and potential solutions to plastic and microplastic pollution in plastic and microplastic in the environment management and health risks a team of distinguished environmental researchers delivers an up to date exploration of plastic and microplastic environmental contamination conventional and advanced plastics management techniques and the policies adopted across the globe to combat the phenomenon of plastics contamination containing a balanced focus on both conventional plastics and microplastics this book discusses the potential health issues related to plastic and microplastic infiltration in a variety of global environments and environmental media including freshwater environments oceanic environments soil and sediment and air insightful treatments of commercial and social issues including the roles of corporate social responsibility initiatives and general education in the fight against plastic and microplastic pollution are provided as well plastic and microplastic in the environment also includes a thorough introduction to plastic debris in global environments including its accumulation and disintegration comprehensive explorations of policies for strengthening recyclable markets around the world practical discussions of the prevalence of microplastics in the marine environment air soil and other environmental media in depth examinations of wastewater treatment plants as a potential source point of microplastics as well as conventional and advanced microplastic particle removal technologies perfect for academics postgraduates and advanced undergraduates in fields related to environmental science and plastics plastic and microplastic in the environment management and health risks will also earn a place in the libraries of professionals working in the plastics industries and environmental policymakers

Plastics and Sustainability Grey is the New Green

2022-03-22

rev ed of permeability properties of plastics and elastomers massey liesl k c2003 2nd ed

Plastic and Microplastic in the Environment

2011-09-28

this introductory book covers the entire spectrum of plastics technology engineering from raw materials to finished plastic products it is not just for university college students in plastics technology and other engineering disciplines but also for beginners to the field in general the interconnectivity between the different relevant knowledge areas of plastics technology such as materials engineering processing technology and product development is emphasized a chapter plastics and the environment is also included covering a topic rightly often of great concern to students and newcomers to the field so includes numerous videos conveniently linked via qr

codes to better demonstrate key processes visually

Permeability Properties of Plastics and Elastomers

1980

this extensively updated comprehensive databook was created for design and application engineers scientists and material producer technical support and research and development personnel important weathering characteristics and material properties of plastics and elastomers are presented in discussion tabular and graphical sections it provides a ready reference for comparing materials in the same family as well as materials in different families data are presented on 80 major plastic and elastomer materials including biodegradable or organic polymers new to this edition the resin chapters each contain textual summary information including category general description and weathering properties detailing information of the material s susceptibility or immunity to weathering including discussion of test results extensive references are provided the resin chapter material supplier trade name product data are presented in graphical and tabular format with results normalized to si units retaining the familiar format of the 1st edition and allowing easy comparison between materials and test conditions

Commercial Names and Sources for Plastics and Adhesives

2019-10-07

a comprehensive and up to date overview of the major mineral and organic fillers for plastics their production structure and properties as well as their applications in terms of primary and secondary functions edited and co authored by professor marino xanthos with contributions by international experts from industry and academia this book presents methods of mixing incorporation technologies surface treatments and modifications for enhanced functionality an analysis of parameters affecting filler performance and a presentation of current and emerging applications additionally the novel classification according to modification of specific polymer properties rather than filler chemical composition provides a better understanding of the relationships between processing structure and properties of products containing functional fillers and the identification of new markets and applications for engineers scientists and technologists involved in the important sector of polymer composites

Plastics Technology

2006-09-07

hollow glass microspheres for plastics elastomers and adhesives compounds brings together for the first time all of the practical and theoretical aspects of glass bubble manufacturing including its properties processing and applications as well as regulatory environmental and health and safety

aspects the book enables the reader to evaluate the applicability of glass bubbles to various applications involving polymers in thermoplastics elastomers liquid thermosets and adhesives it is an indispensable guide for material selection and improving sustainability of products related data sets and case studies complement the book making it a reference book for plastics processors product designers and engineers working with plastics and elastomers and anyone who wants to improve functionality and performance make their products lighter longer lasting and stronger all while reducing costs and material needs provides best practices for plastics and rubber processing with glass bubbles synthesizes all of the practical and theoretical aspects of glass bubble manufacturing including its properties applications and more describes different end use applications and how glass bubbles influence various properties including mechanical structural thermal and optical properties in these applications a one stop reference book that also covers the regulatory and environmental aspects of this important additive

The Effect of UV Light and Weather

2010-01-07

additives for plastics volume 1 state of the art summarizes the state of the art about additives for plastics including coupling agents for fillers and plasticizers as well as colorants silicas cellulose fiber whiskers and microfibers stabilizers for weather fungal and heat resistance and resistance to ultraviolet radiation are also considered this volume is comprised of 13 chapters the first of which introduces the reader to nonreinforcing fillers such as carbon black wood flour alpha cellulose calcium carbonate and natural and synthetic silicates the discussion then turns to synthetic and naturally occurring silicas short cellulose fibers for reinforcing polymers and asbestiform fillers whiskers and microfibers are the subject of the subsequent chapter with emphasis on their differences and similarities application in various plastics and prospects silane and nonsilane coupling agents nonfiller additives plasticizers biocides and heat stabilizers are also examined this volume also evaluates rutile titanium dioxide and other white pigments with regard to the opacification and coloring of plastics this book will be of vital interest to those who are closely associated with the plastics industry as well as those who are concerned with the design fabrication and use of plastics

Functional Fillers for Plastics

1964

before the 1970s plastics were considered primarily as non engineering materials and were used in applications such as belts hoses gaskets carpet backing sealing adhesives tires and so forth as a part of an engineering solution more recently plastics have replaced traditional materials and emerged as a significant engineering application within the automotive industry plastics have proven to be cost effective while providing automakers with the design freedom to accommodate safety styling and comfort engineering plastics and plastic composites in automotive applications focuses on some of

the various types of plastics and plastic composites and their applications and advantages within passenger vehicles

Engineering Design for Plastics

2015-04-30

this updated edition of flame retardants for plastics and textiles provides an overview of flame retardants that are in commercial use were recently used or are in development the book is organized polymer by polymer and provides a guide to advantages limitations and patented and patent free formulations with insight into favorable and unfavorable combinations the targeted readership is the plastics or textile finish compounder and the plastic additives r d worker as well as market development and sales this edition contains besides a compendium of current flame retardants updated information relevant to performance testing mode of action and safety and regulatory aspects industrial or academic researchers will find useful a discussion of unsolved problems with possible new approaches both authors have extended productive experience in both basic and applied flame retardancy

Hollow Glass Microspheres for Plastics, Elastomers, and Adhesives Compounds

2012-12-02

the manufacture of plastic as well as its indiscriminate disposal and destruction by incineration pollutes atmospheric terrestrial and aquatic ecosystems synthetic plastics do not break down they accumulate in the environment as macro micro and nanoplastics these particulate plastics are a major source of pollutants in soil and marine ecosystems particulate plastics in terrestrial and aquatic environments provides a fundamental understanding of the sources of these plastics and the threats they pose to the environment the book demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate particulate plastic contamination in the environment features describes physical and chemical properties of particulate plastics in terrestrial and aquatic ecosystems presents information on characteristics of particulate plastics as impacted by weathering processes provides numerous approaches for managing particulate plastic contamination identifies sources of particulate plastics in the environment distribution and characteristics of particulate plastics and management strategies of particulate plastics written by a global team of scientists this book is for researchers in the fields of environmental safety and waste management or individuals interested in the impact of particulate plastics on environmental health

Additives For Plastics

2003-05-01

utilization of plastic waste processing technology and applications compiles

the latest advances in the utilization of plastic waste explaining the processing methods and technology behind a range of applications chapters cover the types of solid waste the sources of plastic waste mechanical and chemical recycling possibilities key principles strategies and policies for plastic waste management treatment methods the steps involved in the recycling and re utilization of plastic waste specific uses for waste plastic and future directions for these innovative technologies this is an essential source of information for waste management and recycling professionals engineers manufacturers scientists and r d professionals in the plastics industry in addition government officials regulators ngos researchers and graduate and postgraduate students across plastics engineering waste management sustainability packaging polymer science chemical engineering processing technology and environmental science will find this to be a comprehensive resource presents novel methods for the treatment and processing of plastic waste demystifies the utilization of plastic waste for composite tiles conversion to fuels road construction and carbon nanotubes considers the potential implementation of developing technologies supporting further innovation and increased re use of plastic waste

Plastics and the Environment

2009-04-03

from basic materials and theoretical concepts to synthesis compounding processing and manufacturing with detailed descriptions of individual plastics and boundary areas this handbook contains more than 100 tables of plastics data in astm iso and din standards and an international trade name register and buyer s guide

Engineering Plastics and Plastic Composites in Automotive Applications

2015-12-07

Flame Retardants for Plastics and Textiles

2020-07-30

Particulate Plastics in Terrestrial and Aquatic Environments

2019-06-15

Utilization of Plastic Waste

2006

International Plastics Handbook

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