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User's Guide to Plastic Concise Encyclopedia of Plastics User's Guide to Plastic Plastics Chemical Resistance Guide for Plastics Practical Guide to Polypropylene Plastics Additives Handbook of Plastics Joining Practical Guide to the Assessment of the Useful Life of Plastics A Practical Guide to Plastics Sustainability Life Without Plastic Handbook of Plastics Technologies Polypropylene Handbook of Plastics Joining Design Data for Reinforced Plastics Practical Guide to Polyvinyl Chloride A Concise Guide to Plastics Can I Recycle This? Guide to Plastics Practical Guide to Polyethylene Guides to Pollution Prevention Vault Guide to Plastics Industry Jobs Plastics Failure Guide The Plastic Film and Foil Web Handling Guide A Guide to Plastics. (Second Edition.). Plastics and Adhesives Managing Plastics for a Better Environment How to Give Up Plastic Extrusion Thermoplastic Material Selection Plastics Analysis Guide Practical Guide to Plastics Applications Practical Guide to High Performance Engineering Plastics National Certification in Plastics Study Guide Thermoforming Plastics Analysis Guide Say Goodbye to Plastic Design with Reinforced Plastics Die Design for Extrusion of Plastic Tubes and Pipes

User's Guide to Plastic 2015

after over a century of worldwide production of all kinds of plastic products the plastics industry is now the fourth largest and others industry in the united states this brief concise and practical the bulk of the book is the alphabetical listing of entries preceding those entries is a plastics overview figure industry's information and terminology ranging from urethane and tables which presents eight summary guides on design materials and processes to testing quality control the subjects examined in the text and then the world of regulations legal matters and profitability new and use plastics reviews which presents 14 articles that provide full developments in plastic materials and processing comprehensive updates are on the horizon and the examples of these developments and important networking avenues within the world of plastics that are discussed in the book provide guides plastics following the alphabetical listing of entries at the top and future trends end of the encyclopedia seven appendices provide back this practical and comprehensive book reviews the ground and source guide information keyed to the text of the book the extensive and useful appendix a list of plastics industry virtually from a to z through its more than 25 000 entries its concise entries cover the basic abbreviations lists all abbreviations used in the text

Concise Encyclopedia of Plastics 2012-12-06

many technical books about plastics are too theoretical and difficult to read the intention of this book is to offer something completely different it is easy to read with many examples taken from everyday life it is suitable for readers at secondary school and university levels and can be used for training activities in industry as well as for self studies included are over 600 color images to illustrate the wide variety of plastics and process workflows used today the book also contains a number of computer based tools that can be downloaded from the author's website with comprehensive coverage this is probably the most versatile plastics handbook ever written new in the second edition are much expanded content new chapter on extrusion new color figures a new layout and corrections throughout a bonus download of working excel tools is provided to supplement the book content

User's Guide to Plastic 2019-07-08

polypropylene is now the third largest consumed plastic material after polyethylene and polyvinyl chloride this book discusses the advantages and disadvantages of working with polypropylene offering practical comment on the available types of polypropylene its mechanical properties and in service performance and processing comparisons with other common plastics are also provided which highlight the advantages of this polyolefin

Plastics 1999

this second edition describes almost 4 000 plastics additives which are currently available to industry it is the result of information received from 164 industrial companies and other organizations the data represent selections from manufacturer's descriptions

Chemical Resistance Guide for Plastics 2000

the new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes plus an extensive compilation of data on joining specific materials the volume is divided into two main parts processes and materials the processing section has 18 chapters each explaining a different joining technique the materials section has joining information for 25 generic polymer families both sections contain data organized according to the joining methods used for that material a significant and extensive update from experts at the welding institute a systematic approach to discussing each joining method including process advantages and disadvantages applications materials equipment joint design and welding parameters includes international suppliers directory and glossary of key joining terms includes new techniques such as flash free welding and friction stir welding covers thermoplastics thermosets elastomers and rubbers

Practical Guide to Polypropylene 2002

after price and delivery time the most frequently asked question about a product is how long will it last lifetime expectancy is often many years the service conditions may be complex and there is a scarcity of definitive data on durability the situation is complicated by the fact that

there are a vast number of degradation agents service conditions properties of importance and different plastics there are many inherent difficulties in designing durability tests in many cases the time scale involved is such that accelerated test conditions are essential whilst large amounts of durability data are generated by accelerated methods much of it is only useful for quality control purposes and relatively little has been validated as being realistically capable of representing service most assessments of the lifetime of plastics are made by considering some measure of performance such as impact strength and specifying some lower limit for the property which is taken as the end point lifetime is not necessarily measured in time for example for some products it will be thought of as the number of cycles of use the object of this publication is to provide practical guidance on assessing the useful service life of plastics it describes test procedures and extrapolation techniques together with the inherent limitations and problems the guide aims to make available the wealth of information that can be applied to help maximise the effectiveness of a durability testing programme this guide seeks to be comprehensive but concentrates on the most common environmental effects causing degradation the test procedures used are outlined and the relevant textbooks and international standards are well referenced examples of lifetime testing studies are cited the practical guide will be useful for anyone responsible for designing manufacturing or testing plastic components it will also be of benefit to suppliers and users of end products as assessment of useful lifetime is critical to the economics and safety aspects of any component key features test methods outlined accelerated testing discussed prediction methods described standards cited key sources of information listed

Plastics Additives 1993-01-01

a practical guide to plastics sustainability concept solutions and implementation is a groundbreaking reference work offering a broad detailed and highly practical vision of the complex concept of sustainability in plastics the book s aim is to present a range of potential pathways towards more sustainable plastics parts and products enabling the reader to further integrate the idea of sustainability into their design process it begins by introducing the context and concept of sustainability discussing perceptions drivers of change key factors and environmental issues before presenting a detailed outline of the current situation with types of plastics processing and opportunities for improved sustainability subsequent chapters focus on the different possibilities for improved sustainability offering a step by step technical approach to areas including design properties renewable plastics and recycling and re use each of these pillars are supported by data examples analysis and best practice guidance finally the latest developments and future possibilities are considered approaches the idea of sustainability from numerous angles offering practical solutions to improve sustainability in the development of plastic components and products explains how sustainability can be applied across plastics design materials selection processing and end of life all set alongside socioeconomic factors considers key areas of innovation such as eco design novel opportunities for recycling or re use bio based polymers and new technologies

Handbook of Plastics Joining 2008-10-17

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

Practical Guide to the Assessment of the Useful Life of Plastics 2002

understand design and manufacture plastics this resource provides you with the state of the art information for the design manufacture and application of plastics as well as its cutting edge usage in nanotechnology includes the latest industry specifications and standards covers the latest recycling methods

A Practical Guide to Plastics Sustainability 2020-04-18

polypropylene the definitive user s guide and databook presents in a single volume a panoramic and up to the minute user s guide for today s most important thermoplastic the book examines every aspect of science technology engineering properties design processing applications of the continuing development and use of polypropylene the unique treatment means that specialists can not only find what they want but for the first time can relate to and understand the needs and requirements of others in the product development chain the entire work is underpinned by very extensive collections of property data that allow the reader to put the information to real industrial and commercial use despite the preeminence and unrivaled versatility of polypropylene as a thermoplastic material to manufacture relatively few books have been devoted to its study polypropylene the definitive user s guide and databook not only fills the gap but breaks new ground in doing so polypropylene is the most popular thermoplastic in use today and still one of the fastest growing polypropylene the definitive user s guide and databook is the complete workbook and reference resource for all those who work with the material its comprehensive scope uniquely caters to polymer scientists plastics engineers processing technologists product designers machinery and mold makers product managers end users researchers and students alike

Life Without Plastic 2017-12-12

Life Without Plastic is a book by Robyn Smith, a leading expert in the field of sustainable design, that explores the impact of plastic on our lives and the environment. The book is a comprehensive guide to the history, uses, and environmental consequences of plastic, and offers practical solutions for reducing plastic use in our daily lives. It is a must-read for anyone interested in sustainable living and the future of our planet.

Handbook of Plastics Technologies 2010-05-27

a hands on guide to choosing and using old and new technologies for joining plastics and elastomers includes detailed discussions of over 25 techniques used to join plastics to themselves and to other materials advantages and disadvantages of each technique along with detailed discussions of applications are presented a second section is organized by material and provides details of using different processes with over 50 generic families of plastics and how different techniques and operating parameters affect weld strength and other criteria this book is an excellent reference and an invaluable resource for novice and expert alike in determining the best joining technique for their application and providing guidance in how to design and prepare for production

Polypropylene 1998-04-15

this is the first directory to gather together information on reinforced plastics and composites some of the most versatile and unusual materials known so comprehensively and in such detail

2019-05-25

polyvinyl chloride pvc has been around since the late part of the 19th century although it was not produced commercially until the 1920s it is the second largest consumed plastic material after polyethylene pvc products can be rigid or flexible opaque or transparent coloured and insulating or conducting there is not just one pvc but a whole family of products tailor made to suit the needs of each application pvc is extremely cost effective in comparison to other plastics with a high degree of versatility in end use and processing possibilities as the reader will note from this book it is durable easily maintained and can be produced in a large range of colours as a result pvc finds use in an extensive range of applications in virtually all areas of human activity including medical equipment construction applications such as flexible roof membranes pipes and window profiles toys automotive parts and electrical cabling the pvc industry has also started to tackle some of its end of life issues this practical guide provides comprehensive background on the resins and additives their properties and processing characteristics as well as discussion of product design and development issues there have been and still are issues and perceptions over environmental and health acceptance covering vinyl chloride monomer dioxins phthalate plasticisers and lead and cadmium based heat stabilisers and these are discussed in depth in this book this book will be of interest to raw materials suppliers and processors or end users of pvc as well as anyone with a general interest in this versatile material resins and additives properties and testing design issues processing including post processing and assembly property enhancement sustainable development

Handbook of Plastics Joining 2008-10-23

if you've ever been perplexed by the byzantine rules of recycling you're not alone you'll want to read *Can I Recycle This?* an extensive look at what you can and cannot chuck into your blue bin the Washington Post first illustrated guidebook that answers the age-old question *Can I Recycle This?* since the dawn of the recycling system men and women the world over have stood by their bins holding an everyday object wondering *Can I Recycle This?* this simple question reaches into our concern for the environment the care we take to keep our homes and our communities clean and how we interact with our local government recycling rules seem to differ in every municipality with exceptions and caveats at every turn leaving the average American scratching her head at the simple act of throwing something away taking readers on a quick but informative tour of how recycling actually works setting aside the propaganda we were all taught as kids *Can I Recycle This?* gives straightforward answers to whether dozens of common household objects can or cannot be recycled as well as the information you need to make that decision for anything else you encounter Jennie Romer has been working for years to help cities and states across America better deal with the waste we produce helping draft meaningful legislation to help communities better process their waste and produce less of it in the first place she has distilled her years of experience into this non-judgmental easy-to-use guide that will change the way you think about what you throw away and how you do it

Design Data for Reinforced Plastics 1994

this practical guide begins with general background to the polyethylene family with price production and market share information it describes the basic types of polyethylene including virgin and filled polyethylene copolymers block and graft polymers and composites and reviews the types of additives used in polyethylene it gives the low-down on the properties including amongst others rheological mechanical chemical thermal and electrical properties it goes on to describe the processing issues and conditions for the wide range of techniques used for polyethylene and also considers post-processing and assembly issues it offers guidance on product design and development issues including materials selection it is an indispensable resource for everyone working with this material

Practical Guide to Polyvinyl Chloride 2005

the Vault Guides to Jobs Series provides essential information about key careers and industries with an emphasis on preparing for a career and getting your foot in the door

A Concise Guide to Plastics 1963

plastics failure to a certain extent is the result of a phenomenal increase in the number and variety of applications in relatively few years the focus of this book is on actual field and product failures the treatment is comprehensive emphasizing cause and prevention the concept of the interdependence of material design and processing is applied to all examples and cases the how-to of prevention is brought out as a logical extension of the cause of failure

Can I Recycle This? 2021-04-13

written to assist anyone who works with webs directly or indirectly the plastic film and foil handling guide is a handbook for diagnosing and correcting problems with web handling technology covering web handling fundamentals process-related technologies troubleshooting and solutions it includes sufficient technical information to identify and correct defects in rolls of film or foil readers will appreciate this unbiased look at web handling that also serves as a counterpoint to information from equipment suppliers the text presents guidelines on roller alignment in machines tensioning of webs use of web spreading and guiding devices use of razor slitters shear knife slitters edge trim removal trim disposal management of electrostatic charges on webs waste storage equipment winding technology is presented that addresses gage variation issues cores and mandrels vibration speed issues web thickness issues web strength issues coated web issues laminated web issues clear film issues winding tension profile issues and lay-on roller issues a guide for troubleshooting web handling problems and a glossary of terms for quick reference is also provided

Guide to Plastics 1975

an accessible guide to the changes we can all make small and large to rid our lives of disposable plastic and clean up the world's oceans *How to Give Up Plastic* is a straightforward guide to

eliminating plastic from your life going room by room through your home and workplace greenpeace activist will mccallum teaches you how to spot disposable plastic items and find plastic free sustainable alternatives to each one from carrying a reusable straw to catching microfibers when you wash your clothes to throwing plastic free parties you ll learn new and intuitive ways to reduce plastic waste and by arming you with a wealth of facts about global plastic consumption and anecdotes from activists fighting plastic around the world you ll also learn how to advocate to businesses and leaders in your community and across the country to commit to eliminating disposable plastics for good it takes 450 years for a plastic bottle to fully biodegrade and there are around 12 7 million tons of plastic entering the ocean each year at our current pace in the year 2050 there could be more plastic in the oceans than fish by weight these are alarming figures but plastic pollution is an environmental crisis with a solution we can all contribute to

Practical Guide to Polyethylene 2005

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 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 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 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 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 designed to improve production efficiency and product quality focuses on practical fault analysis and troubleshooting techniques

Guides to Pollution Prevention 1991

thermoplastic material selection a practical guide presents current information on how proper material selection is a critical component of any manufactured product the text is a practical guide to a difficult process giving the reader a fundamental grounding in thermoplastic materials and providing the tools they need to save time money and frustration the book provides an overview of the most commonly used thermoplastic materials including discussions of the different chemical families plastics categories and material grades and the implications of these differences on the material selection process it provides fresh insights on the traditional methods of material selection based on performance and cost and also discusses the use of non traditional methods based on subjective evaluation subsequent sections include references on tools that can be used to conduct further exploration how to accurately select the most suitable material writing an effective material specification and working with material suppliers and distributors presents current information on how proper thermoplastics material selection is a critical component of any manufactured product a practical guide to a difficult process giving the reader a fundamental grounding in thermoplastics material selection and providing the tools they need to save time money and frustration delivers insights on the traditional methods of material selection based on performance and cost and introduces nontraditional methods based on size form appearance and feel

Vault Guide to Plastics Industry Jobs 2020

high performance engineering plastics are used in a vast range of applications and environments they are becoming increasingly important because of trends towards more reliable and higher performance machines and devices this book gives readers a working knowledge and understanding of high performance engineering plastics it starts with a simple practical overview of key properties and principles in each of the chapters there are sections on production chemistry product forms properties processing and applications there is a strong bias towards materials and concepts which are used in practice the materials covered include high performance polyethersulfones polyetherimides polyphthalamides polyphenylene sulfide polyaryletherketones polyamideimides polyimides polybenzimidazole liquid crystalline polyesters and perfluoropolymers the reader will develop the ability to understand why materials are chosen for certain applications why those materials have particular properties and how those properties can be modified this will facilitate conversations with both materials suppliers and end users it will help to identify the best and most cost effective solutions

Plastics Failure Guide 2013

from the foreword dr gruenwald has indicated the desirable properties of polymerics for differing applications thus his text is especially useful for polymer chemists who must tailor plastic materials for specific groups of applications engineers in extruding and calendering film and sheet will benefit from the intimate relationships elucidated between processing parameters imposed upon stocks employed in thermoforming and the products thereof mold designers are provided with a complete guide that will enable them to avoid the less obvious pitfalls and wasted effort so often experienced in the evolution of molds for especially complex parts quite likely dr gruenwald s suggestions willll lead to considerable benefits to those who read and practice by this remarkable exposition of thermoforming technology robert k jordan director metalliding institute director engineering research institute scientist in residence gannon university

The Plastic Film and Foil Web Handling Guide 2002-10-29

a simple and powerful book educating people about the epidemic of plastic use and solutions for a plastic free future if you ve heard of the plastic free lifestyle but think you don t have time for it in your busy life prepare to be delightfully wrong goodbye plastic shows you how whether you re seeking to knock plastic out of your life or just try out a few novel eco hacks in your kitchen bathroom office or dining room plastic pollution activist and entrepreneur sandra ann harris invites us to say goodbye to plastic room by room opportunities abound to simplify our lives by re thinking our wasteful habits we just need to learn to recognize them

A Guide to Plastics. (Second Edition.) . 1958

design with reinforced plastics is a comprehensive accessible guide to fundamental aspects of designing for world markets with this increasingly important range of materials this unique publication takes full account of the design implications of the single european market as well as the rapidly changing effects of consumer protection and environmental legislation

Plastics and Adhesives 1956

Managing Plastics for a Better Environment 1991

How to Give Up Plastic 2019-07-16

Extrusion 2013-09-21

Thermoplastic Material Selection 2015-04-30

Plastics Analysis Guide 1983

Practical Guide to Plastics Applications 1972

Practical Guide to High Performance Engineering Plastics 2011-07-30

National Certification in Plastics Study Guide 2000

Thermoforming 1998-05-08

Plastics Analysis Guide 1983-08-01

Say Goodbye to Plastic 2020-08-28

Design with Reinforced Plastics 2012-12-06

Die Design for Extrusion of Plastic Tubes and Pipes 2018

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