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Processing, Materials, and Applications William Andrew

The explosion of plastic material development continues to generate a proliferation of conversion processes and variants of these methods. Unfortunately, most books on plastics conversion focus on a single process, such as injection molding, limiting their usefulness to readers without prior knowledge of the field. Few, if any, single-source texts adequately describe and compare each of the plastic conversion processes together. Plastic Conversion Processes: A Concise and Applied Guide addresses that need. It provides a basic overview of each of the seven major conversion processes, which account for the creation of more than 97 percent of all plastics products today. This detailed guide assembles and integrates the wealth of information scattered throughout various literature, to provide a basic yet complete illustration of plastic conversion processes. Learn Methods to Compare, Evaluate, and Select the Best Process for Your Product This book is unique in that it employs an all-encompassing approach, offering more than a mere overview of basic theory and application related to each major process. Chapters begin with a process-attribute table to serve as a quick guide, and then briefly describe a particular conversion process. To ensure comprehensive understanding of each method and how it works, sections include a short history and detailed explanation of the particular equipment, tooling, and materials used, as well as general piece part design guidelines and case studies gleaned from real-life experience. There is a plastic term for every letter of the alphabet, making it one of the most complex fields in science. A "quick reference" section at the end of the book includes an exhaustive collection of more than 350 terms, definitions, acronyms, and a key process characteristics comparison chart. Supplemented with photos, diagrams, and illustrations that bolster understanding of the material, this book characterizes the plastics industry in a way that makes it less intimidating, to help those new to the field fully grasp the entire spectrum of the field. With its uncommon consolidation of information, this volume quickly and effectively brings readers up to speed on plastic conversion processes.

Covering Those Standards, Specifications, Test Methods, and Recommended Practices Issued by National Standardization Organizations in the United States Springer

World Index of Plastics Standards Precision Metal Additive Manufacturing CRC Press

1962: July-December Cengage Learning

A practical reference for all plastics engineers who are seeking to answer a question, solve a problem, reduce a cost, improve a design or fabrication process, or even venture into a new market. Applied Plastics Engineering Handbook covers both polymer basics – helpful to bring readers quickly up to speed if they are not familiar with a particular area of plastics processing – and recent developments – enabling practitioners to discover which options best fit their requirements. Each chapter is an authoritative source of practical advice for engineers, providing authoritative guidance from experts that will lead to cost savings and process improvements. Throughout the book, the focus is on the engineering aspects of producing and using plastics. The properties of plastics are explained along with techniques for testing, measuring, enhancing and analyzing them. Practical introductions to both core topics and new developments make this work equally valuable for newly qualified plastics engineers seeking the practical rules-of-thumb they don't teach you in school, and experienced practitioners evaluating new technologies or getting up to speed on a new field The depth and detail of the coverage of new developments enables engineers and managers to gain knowledge of, and evaluate, new technologies and materials in key growth areas such as biomaterials and nanotechnology This highly practical handbook is set apart from other references in the field, being written by engineers for an audience of engineers and providing a wealth of real-world examples, best practice guidance and rules-of-thumb

Extrusion William Andrew

This book is for the industrial designer interested in the applications of plastics in products and industry. It explains how different plastics are processed, and it contains extensive examples of common and unusual plastic components and products with an explanation of how they are manufactured. Every year, more products are being replaced or augmented by the same product made from plastic, and this trend has resulted in much debate about the effectiveness of plastic replacements. Today's plastics can be designed to operate in all weather conditions and chemical surroundings. They can be economically produced for short run part production or readily adapted to high quantity production, and they can be cut, glued, tapped, or machined by traditional methods to suit design needs. Explains how to choose the best processing method, what fastening or joining methods can be used, and how to use the characteristics of a plastic to judge its suitability for an application. Covers all major contemporary molding processes. Discusses, in detail, important topics such as surface finish and special effects.

Fundamentals and Industrial Applications World Index of Plastics Standards Precision Metal Additive Manufacturing

Includes Part 1, Number 2: Books and Pamphlets, Including Serials and Contributions to Periodicals July - December)

Proceedings of 5th International Conference on the Industry 4.0 Model for Advanced Manufacturing Jerry Wang

General DFMA principles, considerations. Failure analysis method and possible cause frequent problems.

World Index of Plastics Standards Butterworth-Heinemann

This book gathers the proceedings of the 5th International Conference on the Industry 4.0 Model for Advanced Manufacturing (AMP 2020), held in

Belgrade, Serbia, on 1–4 June 2020. The event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of manufacturing. The book addresses a wide range of topics, including: design of smart and intelligent products, developments in CAD/CAM technologies, rapid prototyping and reverse engineering, multistage manufacturing processes, manufacturing automation in the Industry 4.0 model, cloud-based products, and cyber-physical and reconfigurable manufacturing systems. By providing updates on key issues and highlighting recent advances in manufacturing engineering and technologies, the book supports the transfer of vital knowledge to the next generation of academics and practitioners. Further, it will appeal to anyone working or conducting research in this rapidly evolving field.

Plastics Institute of America Plastics Engineering, Manufacturing & Data Handbook Springer Nature

This book describes industrial applications of polyolefins from the researchers' perspective. Polyolefins constitute today arguably the most important class of polymers and polymeric materials for widespread industrial applications. This book summarizes the present state of the art. Starting from fundamental aspects, such as the polymerization techniques to synthesize polyolefins, the book introduces the topic. Basic knowledge about polyolefin composites and blends is explained, before applications aspects in different industry sectors are discussed. The spectrum comprises a wide range of applications and industry sectors, such as the packaging and food industry, the textile industry, automotive and buildings, and even biomedical applications. Topics, which are addressed in the various chapters, comprise synthesis and processing of the materials; their classification; mechanical, physical and technical requirements and properties; their characterization; and many more. In the end of the book, even the disposal, degradation and recycling of polyolefins are addressed, and light is shed on their commercial significance and economic value. In this way, the book follows the entire 'lifetime' of polyolefin compounds and materials: from their synthesis and processing, over applications, to the recycling and reuse of disposed or degraded polyolefin substrates.

Pneumatic Conveying Design Guide Academic Press

This book provides a simplified, practical, and innovative approach to understanding the design and manufacture of plastic products in the World of Plastics. The concise and comprehensive information defines and focuses on past, current, and future technical trends. The handbook reviews over 20,000 different subjects; and contains over 1,000 figures and more than 400 tables. Various plastic materials and their behavior patterns are reviewed. Examples are provided of different plastic products and relating to them critical factors that range from meeting performance requirements in different environments to reducing costs and targeting for zero defects. This book provides the reader with useful pertinent information readily available as summarized in the Table of Contents, List of References and the Index.

Index of Specifications and Standards ASIA PACIFIC BUSINESS PRESS Inc.

Provides a bibliography of more than three thousand handbooks in various aspects of science and technology, from abrasives and band structures to yield strength and zero defects

Index of U.S. Nuclear Standards CRC Press

Applied Plastics Engineering Handbook: Processing, Materials, and Applications, Second Edition, covers both the polymer basics that are helpful to bring readers quickly up-to-speed if they are not familiar with a particular area of plastics processing and the recent developments that enable practitioners to discover which options best fit their requirements. New chapters added specifically cover polyamides, polyimides, and polyesters. Hot topics such as 3-D printing and smart plastics are also included, giving plastics engineers the information they need to take these embryonic technologies and deploy them in their own work. With the increasing demands for lightness and fuel economy in the automotive industry (not least due to CAFÉ standards), plastics will soon be used even further in vehicles. A new chapter has been added to cover the technology trends in this area, and the book has been substantially updated to reflect advancements in technology, regulations, and the commercialization of plastics in various areas. Recycling of plastics has been thoroughly revised to reflect ongoing developments in sustainability of plastics. Extrusion processing is constantly progressing, as have the elastomeric materials, fillers, and additives which are available. Throughout the book, the focus is on the engineering aspects of producing and using plastics. The properties of plastics are explained, along with techniques for testing, measuring, enhancing, and analyzing them. Practical introductions to both core topics and new developments make this work equally valuable for newly qualified plastics engineers seeking the practical rules-of-thumb they don't teach you in school and experienced practitioners evaluating new technologies or getting up-to-speed in a new field. Presents an authoritative source of practical advice for engineers, providing guidance from experts that will lead to cost savings and process improvements Ideal introduction for both new engineers and experienced practitioners entering a new field or evaluating a new technology Updated to include the latest technology, including 3D Printing, smart polymers, and thorough coverage of biopolymers and biodegradable plastics

Refrigeration Engineering Springer Science & Business Media

Plastics extrusion is a high volume manufacturing process in which raw plastic material is melted and formed into a continuous profile. Extrusion produces items such as pipe/tubing, weather stripping, fence, deck railing, window frames, adhesive tape and wire insulation. There are fundamentally two different methods of extruding film, namely, below extrusion and slit die extrusion. The design and operation of the extruder up to the die is the same for both methods. The moulding process is one of the most important plastic processing operations. It is an important commercial

process whereby a resinous polymeric compound is converted into useful finished articles. The origin of this process is dates back about a century to the invention of a plunger type machine. The mould has its own importance, which give the required shapes of the products. The vast growth of injection moulding is reflected dramatically in many types and sizes of equipment available today. Plastic moulding especially thermoplastic items may be produced by compression moulding methods, but since they are soft at the temperature involved, it is necessary to cool down the mould before they may be ejected. Injection moulding differs from compression moulding is that the plastic material is rendered fluid in a separate chamber or barrel, outside the mould is then forced into the mould cavity by external pressure. Plastic technology is one of the most vigorous manufacturing branches, characterised by new raw materials, changing requirements, and continuous development in processing methods. The injection moulding machines manufacturers plays an important part in the creation of injection moulding technology, process control, to essential mechanical engineering. Even though design is a specialized phase in engineering field, in tool and mould engineering it is totally divided into two wings as product design and tool and die design. This book basically deals with transport phenomena in polymer films, reinforcements for thermosets, miscellaneous thermoset processes, injection molding, blow molding, extrusion, basic principles of injection moulding, correct injection speed is necessary for filling the mould, plastic melt should not suffer degradation, the mould must be controlled for better quality product, logical consideration of moulding profile and material is important than standard setting guide lines, economical setting of the machine, proper maintenance of machine, safety operations, preliminary checking for moulding, material, component, mould, machine, injection moulding technique, the various type of injection moulding machines, specifications, platen mounting of moulds, locating spigots, mould clamping, etc. The book covers manufacturing processes of extruded and moulded products with the various mould designs. This is very useful book for new entrepreneurs, technocrats, researchers, libraries etc.

The Complete Technology Book on Plastic Extrusion, Moulding And Mould Designs William Andrew

Pneumatic Conveying Design Guide is a guide for the design of pneumatic conveying systems and includes detailed data and information on the conveying characteristics of a number of materials with a wide range of properties. This book includes logic diagrams for design procedures and scaling parameters for the conveying line configuration. It also explains how to improve the performance of pneumatic conveyors by optimizing, uprating, and extending the system or adapting it for a change of material. This book consists of 15 chapters divided into three sections and opens with an overview of the state of the art on pneumatic conveying, along with definitions of the terms used in pneumatic conveying. The next chapter describes the various types of pneumatic conveying systems and the parameters that influence their capabilities in terms of material flow rate and conveying distance. The discussion then turns to feeding and discharging of the conveying line; selection of a pneumatic conveying system for a particular application; and design procedures for pneumatic conveying system. The theory and use of compressed air in pneumatic conveying are also considered, along with the effect of material properties on conveying performance; troubleshooting; and operational problems and some solutions. The final chapter is devoted to the use of bench-scale test methods to determine the material properties relevant to pneumatic conveying. This monograph is intended for designers and users of pneumatic conveying systems.

Covering Those Standards, Specifications, Test Methods, and Recommended Practices Issued by National Standardization Organizations in the United States Springer

General design considerations and steps

Applied Strength of Materials SI Units Version Walter de Gruyter

Standards, Quality Control and Measurement Sciences in 3D Printing and Additive Manufacturing addresses the critical elements of the standards and measurement sciences in 3D printing to help readers design and create safe, reliable products of high quality. With 3D printing revolutionizing the process of manufacturing in a wide range of products, the book takes key features into account, such as design and fabrication and the current state and future potentials and opportunities in the field. In addition, the book provides an in-depth analysis on the importance of standards and measurement sciences. With self-test exercises at the end of each chapter, readers can improve their ability to take up challenges and become proficient in a number of topics related to 3D printing, including software usage, materials specification and benchmarking. Helps the reader understand the quality framework tailored for 3D printing processes Explains data format and process control in 3D printing Provides an overview of different materials and characterization methods Covers benchmarking and metrology for 3D printing
CRC Press

English abstracts from Kholodil'naia tekhnika.

Handbooks and Tables in Science and Technology CRC Press

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.

An Index of U.S. Voluntary Engineering Standards, Supplement 1 Elsevier

Dynamic Mechanical Analysis (DMA) is a powerful technique for understanding the viscoelastic properties of materials. It has become a powerful tool for chemists, polymer and material scientists, and engineers. Despite this, it often remains underutilized in the modern laboratory. Because of its high sensitivity to the presence of the glass transition, many users limit it to detecting glass transitions that can't be seen by differential scanning calorimetry (DSC). This book presents a practical and straightforward approach to understanding how DMA works and what it measures. Starting with the concepts of stress and strain, the text takes the reader through stress-strain, creep, and thermomechanical analysis. DMA is discussed as both the instrument and fixtures as well as the techniques for measuring both thermoplastic and thermosetting behavior. This edition offers expanded chapters on these areas as well as frequency scanning and other application areas. To help the reader grasp the material, study questions have also been added. Endnotes have been expanded and updated. Features Reflects the latest DMA research and technical advances Includes case studies to demonstrate the use of DMA over a range of industrial problems Includes numerous references to help those with limited materials engineering background Demonstrates the power of DMA as a laboratory tool for analysis and testing

AMP 2020 CRC Press

This is a summary of my over 15 years work as a mechanical design engineer in electronics industry. The contents include: · The task, design considerations, developing steps of mechanical design for electronics product. · The frequent using mechanical components design guideline. · Specific function design, such as seal, EMC, screw torque definition and calculation. · Tolerance analysis. · Preliminary thermal distribution design. · Other topics such as DFM, failure root cause analysis, etc. Components design guideline is the major part of this book. The components are categorized according manufacturing method, such as sheet metal, plastic injection, die casting, Aluminium extrusion, over mold, rubber keypad and standards components selection. In each individual guideline, the typical structure is used to include the main items of: · Characters about advantages and disadvantages. · Brief description of typical manufacturing process and related equipment. · Frequent using material. · Structure design considerations. · Typical features. · Tolerance. · Frequent defects and analysis. The aim of this book is to provide guide and support to the junior mechanical design engineers in electronics industry, and I assume the readers have mechanical knowledge and reasonable design practise. So I excluded the massive basics that can be found from popular manuals or standards to make the book brief and wish could bring the readers practical help.

Materials Research and Standards Industrial Press Inc.

Design Engineering Manual offers a practical guide to the key principles of design engineering. It features a compilation of extracts from several books within the range of Design Engineering books in the Elsevier collection. The book is organized into 11 sections. Beginning with a review of the processes of product development and design, the book goes on to describe systematic ways of choosing materials and processes. It details the properties of modern metallic alloys including commercial steels, cast irons, superalloys, titanium alloys, structural intermetallic compounds, and aluminum alloys. The book explains the human/system interface; procedures to assess the risks associated with job and task characteristics; and environmental factors that may be encountered at work and affect behavior. Product liability and safety rules are discussed. The final section on design techniques introduces the design process from an inventors perspective to a more formal model called total design. It also deals with the behavior of plastics that influence the application of practical and complex engineering equations and analysis in the design of products. Provides a single-source of critical information to the design engineer, saving time and therefore money on a particular design project Presents both the fundamentals and advanced topics and also the latest information in key aspects of the design process Examines all aspects of the design process in one concise and accessible volume