



# Plastic Component Design

**E. Alfredo Campo**



## **Plastic Component Design:**

**Designing Plastic Parts for Assembly** Paul A. Tres, 2017 Designing Plastic Parts for Assembly provides an excellent tool for both seasoned part designers and novices to the field facilitating cost effective design decisions and ensuring that the plastic parts and products will stand up under use The detailed yet simplified discussion of material selection manufacturing techniques and assembly procedures will enable the reader to evaluate plastic materials and to adequately design plastic parts for assembly The book describes good joint design and implementation the geometry and nature of the component parts the types of load involved and other basic information necessary in order to work successfully in this field Throughout the treatment is practice oriented and focused on everyday problems and situations The 7th edition introduces a completely new chapter on overmolding and in mold assembly as well as a new chapter on bonding including accompanying examples Laser molding and ultrasonics coverage are also brought up to date with illustrative case histories Contents Understanding Plastic Materials Understanding Safety Factors Strength of Materials for Plastics Nonlinear Considerations Assembly Techniques for Plastics Press Fitting Living Hinges Snap Fitting Bonding In Mold Assembly Plastic Component Design

Paul D. Q. Campbell, 1996 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 *Plastic Part Design for Injection Molding* Robert A. Malloy, 1994 **Plastics Design Handbook** Marlene G. Rosato, D.V. Rosato, 2013-11-27 This book provides a simplified and practical approach to designing with plastics that fundamentally relates to the load temperature time and environment subjected to a product It will provide the basic behaviors in what to consider when designing plastic products to meet performance and cost requirements Important aspects are presented such as understanding the advantages of different shapes and how they influence designs Information is concise comprehensive and practical Review includes designing with plastics based on material and process behaviors As designing with any materials plastic steel aluminum wood etc it is important to know their behaviors in order to maximize product performance to cost efficiency Examples of many different designed products are reviewed They range from toys to medical devices to cars to boats to underwater devices to containers to springs to pipes to buildings to aircraft to space craft

The reader's product to be designed can directly or indirectly be related to product design reviews in the book. Important are behaviors associated and interrelated with plastic materials: thermoplastics, thermosets, elastomers, reinforced plastics, etc., and fabricating processes: extrusion, injection molding, blow molding, forming, foaming, rotational molding, etc. They are presented so that the technical or non-technical reader can readily understand the interrelationships.

*The Complete Part Design Handbook* E. Alfredo Campo, 2006. This handbook was written for the injection molding product designer who has a limited knowledge of engineering polymers. It is a guide for the designer to decide which resin and design geometries to use for the design of plastic parts. It can also offer knowledgeable advice for resin and machine selection and processing parameters. Manufacturer and end user satisfaction is the ultimate goal.

*Designing Successful Products with Plastics* Mark T. MacLean-Blevins, 2024-05-03. *Designing Successful Products with Plastics: Fundamentals of Plastic Part Design 2e* provides expert insight into design considerations required to bring a concept product or part through design and ready for production. Rather than focusing on design rules and engineering equations used during product development, the emphasis of the book is on what the designer needs to consider during the early conceptual visualization stages and in the detailed stages of the design process. This fully updated edition features new practical advice on how to design sustainably throughout the book. This approach will bridge the gap between the industrial designer tasked with the big picture product design and use and the part designer tasked with the detailed plastic part design for manufacture. Useful to both experienced and novice designers, this book brings valuable design process information through specific examples, enabling designers and engineers in the plastics industry to effectively use the available technical information to successfully design and manufacture new products. Brings together the worlds of the plastic part designer and the industrial designer and shows how each impacts the success of a development project. Teaches the Four Pillars considerations: Materials, Processes, Tooling, and Design required for every design decision to be made during a plastic part design project. The interrelationship of these considerations with the sustainability intent for the product being developed is taught and illustrated within this new edition. Illustrates the product design process roadmap from creation of the concept through implementation into manufacturing, highlighting steps and methods used throughout the process to limit risk and ensure success. Includes methods and design project management techniques used to ensure an efficient design process and successful manufacturing of the product or part.

**Design of Injection Molded Plastic Parts** Christoph Jaroschek, 2022-07-11. This book creates a new perspective on the design of plastic parts. In many books, there is a strong focus on the material, the material properties, and the calculation or dimensioning. What is often not taken into account is that very many plastic components only have to withstand low loads in very many applications; the focus is on the actual design. This requires a good understanding of the injection molds that must be built to produce the plastic components. Depending on the design of the injection molded component, these molds become more complex and more prone to failure during production. The complex process of manufacturing a plastic part becomes

holistically understandable as a link is created between the molder the mold maker and the part designer The focus is on injection molds and therefore on thermoplastics Everything that is necessary for the design and manufacture of an injection molded component is presented in a simple extremely practical manner and limited to the essentials Many descriptive pictures as well as examples based on the demonstration component Polyman facilitate the understanding enormously

*Hollow Plastic Parts* Glenn L. Beall, James L. Throne, 2004 Hollow plastic parts range in size from small unit dose liquor bottles doll heads and syringe bulbs to large gasoline tanks pallets and playground equipment Designers and design engineers are often familiar with one way of making these parts but may not be aware of other methods that may offer greater design and performance flexibility The book provides comprehensive design and manufacturing comparisons of three major methods blow molding rotational molding and twin sheet thermoforming as well as an overview of other methods used to produce hollow plastic parts Not only will the seasoned designer be able to determine the advantages and limitations of specific technologies but also the newcomer will be able to quickly select the best manufacturing method for any particular hollow product

Design and Manufacture of Plastic Components for Multifunctionality Vanessa Dr Goodship, Bethany Middleton, Ruth Cherrington, 2015-09-08 Design and Manufacture of Plastic Components for Multifunctionality Structural Composites Injection Molding and 3D Printing presents the latest information on how plastics manufacturers are increasingly being driven towards carbon emission reduction lightweighting and cost savings through process integration These technologies have the potential to revolutionize future products with built in functionality such as sensors smart packaging and damage detection technology for everything from milk bottles and salad packaging to automotive bumpers and plane fuselages This book introduces the three core manufacturing methods for multifunctional materials composites injection molding and 3D printing all processes facing challenges for the implementation of new technology Users will find a book that brings together both process and material advances in this area giving process engineers designers and manufacturers the information they need to choose the appropriate material and process for the product they are developing Provides an introduction to the latest technologies in the area of multifunctionality enabling engineers to implement new breakthroughs in their own businesses Gives an understanding of the processes that need to be considered in both design and manufacture of future devices while using materials from a broader palette than used in existing manufacturing processes Includes best practice guidance and flow charts to aid in material and process selection Covers revolutionary future products with built in functionality such as sensors smart packaging and damage detection technology for everything from milk bottles and salad packaging to automotive bumpers and plane fuselages

**Tool and Manufacturing Engineers Handbook: Plastic Part Manufacturing** Philip Mitchell, 1996-12-09 This volume focuses on the practical application of processes for manufacturing plastic products It includes information on design for manufacturability DFM material selection process selection dies molds and tooling extrusion injection molding blow molding thermoforming lamination rotational molding casting foam processing

compression and transfer molding fiber reinforced processing assembly and fabrication quality plant engineering and maintenance management      Plastic Part Technology Edward A. Muccio,1991-01-01 This book focuses on the technology involved in using plastics explaining the key areas of plastic materials plastic product design plastic processing plastic end use markets and issues within the plastics industry that are critical to working and communicating within the plastics industry      Applied Plastics Engineering Handbook Myer Kutz,2011-07-26 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      Decoration and Assembly of Plastic Parts Edward A. Muccio,1999-01-01 Documents the decorating and assembly operations used to finish plastic products as part of the manufacturing process The author reviews plastic materials and their properties then describes the use of adhesives welding assembly hot stamping pad printing metallization and painting coating an      Applied Plastics Engineering Mr. Rohit Manglik,2024-01-30 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Designing with Plastics** Gunter Erhard,2013-03-18 Designing with Plastics is an indispensable tool for every engineer and designer working with plastic materials It will assist in the development of plastic parts that are not only functional and esthetically pleasing but also manufacturable while meeting ever increasing end use requirements The short but concise introduction into the specific properties of this material class focuses on the practical needs of the designer and lays the foundation for the following in depth discussion of part design suitable for production and the intended end use application Numerous detailed examples highlight practical tips and rules of thumb for successful part design Content Structure and

Properties Properties of Generic Polymeric Materials Physical Properties Characteristic Values Test Methods and Procedures Geometrically Simple Structural Parts under Static Loads Design and Material Considerations for Parts Subjected to Mechanical Loads Designing for Production Flexing Elements Mechanical Fasteners Ribbed Structures Gear Wheels Friction Bearings Wheels and Rollers *Automotive Plastics and Composites* Joseph P. Greene, 2021-06-23 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 **Designing with Plastics** P. R. Lewis, 1993 In this report Dr Lewis surveys the current state of the art in designing with plastics in terms of materials properties and processing technologies He also considers the legal implications of intellectual property and product liability as well as ergonomic and aesthetic design parts consolidation and recyclability His review is supported throughout by references to key processes and applications including many well known consumer products and further information can be derived from the 435 abstracts of published papers which complete the report *Characterization and Failure Analysis of Plastics* ASM International, Steve Lampman, 2003-01-01 The selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties manufacturing characteristics design considerations and the total life cycle of the product This reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design property testing and failure analysis The fundamental structure and properties of plastics are reviewed for general reference and detailed articles describe the important design factors properties and failure mechanisms of plastics The effects of composition processing and structure are detailed in articles on the physical chemical thermal and mechanical properties

Other articles cover failure mechanisms such as crazing and fracture impact loading fatigue failure wear failures moisture related failure organic chemical related failure photolytic degradation and microbial degradation Characterization of plastics in failure analysis is described with additional articles on analysis of structure surface analysis and fractography

**Handbook of Plastics Testing and Failure Analysis** Vishu Shah, 2020-12-22 Written in easy to read and use format this book provides a strong training resource and reference for product designers using plastics in their products helping them identify quantify and confirm whether problems are related to product design or process Updates coverage of data analysis techniques and examples and expands coverage of failure analysis key because of increased litigation related to product liability Overviews plastic testing methods and the framework to investigate causes of plastic part failure Provides a strong training resource and reference for product designers using plastics in their products Features a video tour of a plastics testing laboratory on a companion website and has a separate manual of problems and solutions that are appropriate for college professors using the book as a class textbook

**Handbook of Molded Part Shrinkage and Warpage** Jerry Fischer, 2003-12-31 The handbook explains in plain terms why moldings shrink and warp shows how additives and reinforcements change the picture sets out the effect of molding process conditions and tells why you never can have a single correct shrinkage value But that's not all The handbook shows how to alleviate the problem by careful design of the molded part and the mold and by proper material selection It also examines computer aided methods of forecasting shrinkage and warpage And most important of all the handbook gives you the data you need to work with This is the most complete collection of shrinkage data ever made and includes an extensive compilation of hard to find multi point information on how processing part design mold design material and post mold treatment affect the part's final dimensions Manufacturers figures for thousands of grades along with an exhaustive search of magazines journals conference papers books web sites and brochures combine to make this a powerful resource A lot depends on a dimensionally correct molding Quality speed to market profit margins for the molder and toolmaker the efficiency of secondary and assembly operations reputation all these are on the line The Mold Shrinkage and Warpage Handbook is the book for people who have to live with shrinkage and warpage It is the only book for people who have to commit themselves



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