

DESIGNING PLASTICS COMPOSITES

A HANDBOOK

Edited by **DAVID H. NISSEN**
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Designing With Plastics

**Dominick V. Rosato, Donald V.
Rosato, Marlene G. Rosato**



Designing With Plastics:

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

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

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

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Plastics Product Design Paul F. Mastro,2016-03-04 This book is aimed at designers who have had limited or no experience with plastics materials as well as a more experienced designer who is designing a part for a use process or an application that they are not familiar with The reader is provided with an introduction to plastics as a design material and a discussion of materials commonly in use today There is a discussion of a variety of processes available to the designer to make a part along with the design considerations each process will entail This section also includes a discussion of useful prototyping processes including advantages and disadvantages of each Next the book will discuss general design considerations applicable to most plastics product designs In section 2 of the book the author will discuss elements of design of a number of generic plastic product types based on his 40 years of experience of product design and development for a several companies with a variety of products This section will include discussions of structural components gears bearings hinges snap fits packaging pressure vessels and optical components This section will discuss the general considerations that apply to these applications as well as specific incites about each particular application The book concludes with a discussion of the general design process

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

Designing with Plastics and Composites: A Handbook

Donald Rosato,1991-07-25 For some time there has been a strong need in the plastic and related industries for a detailed practical book on designing with plastics and composites reinforced plastics This one source book meets this criterion by clearly explaining all aspects of designing with plastics as can be seen from the Table of Contents and Index It provides information on what is ahead as well as today s technology It explains how to interrelate the process of meeting design performance requirements with that of selecting the proper plastic and manufacturing process to make a product at the lowest cost This book has been prepared with an awareness that its usefulness will depend greatly upon its simplicity The overall guiding premise has therefore been to provide all essential information Each chapter is organized to best present a methodology for designing with plastics and composites of industrial designers whether in engineering This book will prove useful to all types or involved in products molds dies or equipment and to people in new product ventures research and development marketing purchasing and management who are involved with such different products as appliances the building industry autos boats electronics furniture medical recreation space vehicles and others In this handbook the basic essentials of the properties and processing behaviors of plastics are presented in a single source intended to be one the user will want to keep within easy reach

Designing with Plastics G. W. Ehrenstein,G. Erhard,1984-01-01

Designing with Plastics and Composites: A Handbook Donald Rosato,2013-04-18 For some time there has been a strong need in the plastic and related industries for a detailed practical book on designing with plastics and composites reinforced plastics This one source book meets this criterion by clearly explaining all aspects of designing with plastics as can be seen from the Table of Contents and Index It provides information on what is ahead as well as today s technology It explains how to interrelate the process of meeting design performance requirements with that of selecting the proper plastic and manufacturing process to make a product at the lowest cost This book has been prepared with an awareness that its usefulness will depend greatly upon its simplicity The overall guiding premise has therefore been to provide all essential information Each chapter is organized to best present a methodology for designing with plastics and composites of industrial designers whether in engineering This book will prove useful to all types or involved in products molds dies or equipment and to people in new product ventures research and development marketing purchasing and management who are involved with such different

products as appliances the building industry autos boats electronics furniture medical recreation space vehicles and others In this handbook the basic essentials of the properties and processing behaviors of plastics are presented in a single source intended to be one the user will want to keep within easy reach **Industrial Design of Plastics Products** M. Joseph Gordon,2003 Table of contents **Plastics Design Handbook** D. V. Rosato,Marlene G. Rosato,2014-02-23 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 *Engineering Design for Plastics* Eric Baer,1964 **Designing with Plastics** Gottfried Wilhelm Ehrenstein,Gunter Erhard,1984 **Plastics Product Design Engineering Handbook** Sidney Levy,2012-12-06 Plastics have become increasingly important in the products used in our society ranging from housing to packaging transportation business machines and especially in medicine and health products Designing plastic parts for this wide range of uses has become a major activity for designers architects engineers and others who are concerned with product development Because plastics are unique materials with a broad range of properties they are adaptable to a variety of uses The uniqueness of plastics stems from their physical characteristics which are as different from metals glasses and ceramics as these materials are different from each other One major concern is the design of structures to take loads Metals as well as the other materials are assumed to respond elastically and to recover completely their original shape after the load is removed Based on this simple fact extensive literature on applied mechanics of materials has been developed to enable designers to predict accurately the performance of structures under load Many engineers depend on such texts as Timoshenko's *Strength of Materials* as a guide to the performance of structures Using this as a guide generations of engineers have designed economical and safe structural parts Unfortunately these design principles must be modified when designing with plastics since they do not respond elastically to stress and undergo permanent deformation with sustained loading *Designing with Plastics* Gottfried W. Ehrenstein,G. Erhard,1984-01-01 *Industrial Design of Plastics Products*

Gordon,2003-02-01 **Plastics Design Handbook** Dominick V. Rosato,Donald V. Rosato,Marlene G. Rosato,2001 This reference work provides a simplified and practical approach to designing with plastic materials It enables the reader to recognize the fundamental considerations necessary when designing products with plastics pertaining to the different processes and different plastics Intended for both technical and non technical readers it encompasses the relation of materials and processes to understanding the art of designing After introducing the design basics the book moves on to discuss those factors which influence design Design features and concepts are then covered as is how to interpret the plethora of data available Cost estimation a key factor of the design process is investigated in detail before the relative merits of the different types of plastics and processing techniques are presented It finishes with a look at how the design of individual elements affect the final product design The information contained will be invaluable to even the most experienced designers and engineers as well as providing a firm basis for the novice It provides a complete review of all aspects of the design process from the practical to the theoretical and the elementary to the advanced DESIGNING WITH PLASTICS: A BRIEF GUIDE FOR STUDENTS. BASF.,1991 **Designing with Plastics** P. Lewis,1993 *Robust Plastic Product Design: A Holistic Approach* Vikram Bhargava,2017-12-11 Tooling molding secondary operations material selection evaluation and testing design project management costing value engineering international supplier management and enhancement and more this book provides a broad insight from the author s over 40 years of experience in the plastics industry Aimed at both technical and non technical personnel involved with plastic product design and manufacturing this book shows how having the big picture leads to effective solutions and high quality products Numerous case studies of product failures exemplify the key concepts The reader will benefit from the author s unique depth and breadth of knowledge and experience as a team manager and hands on contributor in all aspects of plastics involving extremely robust mission critical products Judicious attention to fundamental engineering principles is always at the foundation but people issues are also brought into focus from the author s background as a long time international trainer and Six Sigma expert The book is therefore an essence of all the experience gained along the way the good the bad and the ugly This book is unique among the many other fine books available in this subject area in that it is the perspective of one who has been in the trenches as opposed to an academician scientist or other professional from a field with narrower scope such as material science tooling or manufacturing Hence the HOLISTIC APPROACH Contents Causes of Plastics Failure The Holistic Approach Plastic Materials Design Tooling Considerations Processing Secondary Operations Part and Tool Costs Six Sigma Techniques in Plastics Further Reading and Reference Material With forewords by Glenn Beall Louis Maresca and Joe McFadden

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Designing With Plastics**

In some sort of inundated with displays and the cacophony of quick interaction, the profound energy and emotional resonance of verbal artistry usually disappear into obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, situated within the lyrical pages of **Designing With Plastics**, a captivating work of fictional elegance that impulses with fresh thoughts, lies an unique journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this magical opus courses visitors on an emotional odyssey, delicately revealing the latent potential and profound influence embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect its captivating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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