Fundamentals Of Polymeric Materials Solutions

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the book is intended to reveal the correlation between the chemical structure and the physical characteristics of plastics necessary for appropriate material selection design and processing the entire spectrum of plastics is addressed including thermoplastics thermosets elastomers and blends one of the special features is the extensive discussion and explanation of the interdependence between polymer structure and properties and processing polymeric materials contains several application oriented examples and is presented at an intermediate level for both practicing plastic engineers and advanced engineering students contents general characteristics of polymeric materials molecular structure and synthesis of polymers structure of polymeric materials thermomechanical properties mechanical behaviour aging and stabilization overview of selected polymeric materials guide values of the physical properties

concise polymeric materials encyclopedia culls the most used widely applicable articles from the polymeric materials encyclopedia more than 1 100 and presents them to you in a condensed well ordered format featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers this comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field

today engineers designers buyers and all those who have to work with plastics face a dilemma there has been a proliferation of test methods by which plastic properties are measured the property data measured by these test methods are not identical and sometimes have large differences how are engineers designers buyers going to decide

the type and resin grade and their property data which are the valid test methods the right plastic property data are the difference between success and failure of a design thus making the property selection process critical for the first time this book provides a simple and efficient approach to a highly complex and time consuming task there are over 26 000 different grades of polymers and millions of parts and applications further adding to the difficulty of the selection process selection of polymeric materials steers engineers and designers onto the right path to selecting the appropriate values for each plastic property a large amount of property information has been provided to teach and assist the plastic part designer and others in selecting the right resin and properties for an application various standards including astm iso ul and british specifications have been discussed to help the readers in making sound decisions a simple and efficient approach to a highly complex and time consuming task allows engineers to select from various standards including astm iso ul and british specification presents information on properties such as tensile strength melt temperature continuous service temperature moisture exposure specific gravity and flammability ratings tried and true values narrow myriad choices down quickly for readers

this text examines the effect of radiation on polymers and the versatility of its industrial applications by helping readers understand and solve problems associated with radiation processing of polymers it serves as an important reference and fills a gap in the literature radiation processing can significantly improve important properties of polymers however there are still misconceptions about processing polymers by using ionizing radiation this book explains the radiation processing of polymeric materials used in many industrial products including cars airplanes computers and tvs it even addresses emerging green issues like biomaterials and hydrogels

the polymeric materials encyclopedia presents state of the art research and development on the synthesis properties and applications of polymeric materials this groundbreaking work includes the largest number of contributors in the world for a reference publication in polymer science and examines many fields not covered in any other reference with multiple articles on many subjects the encyclopedia offers you a broad based perspective on a multitude of topics as well as detailed research information figures tables illustrations and references from novices to experienced researchers in the field anyone and everyone working in polymer science today needs this complete assessment of

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product design and testing of polymeric materials integrates polymer science principles with detailed experimental programs helping engineers create optimal products thoroughly investigating both physical and processing properties of polymeric substances this valuable guide presents the philosophy of product development management includes test methods for base property and end use performance pairs viscometric and small scale testing with molecular properties for processing advantages examines quality control from the laboratory to the marketplace applies the mechanics of experimental design to product optimization problems covers the mathematics needed for proper regression of experimental data and much more product design and testing of polymeric materials is a complete reference defining numerous plastics and engineering terms and supplying important data on elastomers and plastics and is an essential resource for polymer plastics and chemical engineers and scientists materials scientists and graduate level students in these disciplines

this highly readable volume opens with a discussion of the growth of the polymer industry over the past 50 years including production and uses of polymers and the polymer industry s positive contributions to the nation s balance of trade the basics of polymers are also covered what they are how they are made modified and processed how and why they were developed and what factors account for their varied physical properties the problems that accompany the widespread use of polymers are addressed through an examination of pollution litter landfill overflow and ocean pollutions the volume looks to the future with a review of the ever increasing number of industries that now use polymers there is also a discussion of the global market for polymers and the trend toward internationalization of the polymer industry the future of polymer science is addressed as it relates to education and technical training collaborative research and development efforts among universities corporations and government and policy considerations that affect these endeavors

understanding the thermal degradation of polymers is of paramount importance for developing a rational technology of polymer processing and higher temperature applications controlling degradation requires understanding of many different phenomena including chemical mechanisms the influence of polymer morphology the complexities of oxidation chemistry and the effects of stabilisers fillers and other additives this book offers a wealth of information for polymer researchers and processors requiring an understanding of the implications of thermal degradation on material and product performance

presents information on the synthesis processing and characterization of polymers and polymer composites for high performance materials needing to withstand high temperatures discusses the synthesis and properties of new thermally stable polymers includes new approaches for modeling material processing and decomposition provides a broad perspective by examining the science and engineering aspects of polymeric materials for high temperature applications

the polymeric materials encyclopedia presents state of the art research and development on the synthesis properties and applications of polymeric materials this groundbreaking work includes the largest number of contributors in the world for a reference publication in polymer science and examines many fields not covered in any other reference with multiple articles on many subjects the encyclopedia offers you a broad based perspective on a multitude of topics as well as detailed research information figures tables illustrations and references updates published as new research unfolds will continue to provide you with the latest advances in polymer science and will keep the encyclopedia at the forefront of the field well into the future from novices to experienced researchers in the field anyone and everyone working in polymer science today needs this complete assessment of the state of the art the entire 12 volume set will be available in your choice of printed or cd rom format

revised due to new developments in the polymer area this book contains a broad unified introduction to the subject matter that will be of immediate practical value plus a foundation for more advanced study new features include a discussion of liquid crystal polymers the flory huggins theory group transfer polymerization a quantitative treatment of ziegler natta polymerization with three new worked out examples and much more also end of chapter problems have been added along with practical illustrations of the material

this book will provide a comprehensive overview on the green approach to the research and industrialization of plastic materials an effort will be made to offer to the reader a critical perspective concerning both oil based plastics and novel bio based and waste derived polymer formulations a special focus on bio innovation in the area of organic materials will also be delivered

this book describes the properties of single polymer molecules and polymeric materials and the methods how to characterize them molar masses molar mass distributions and branching structure are discussed in detail these properties are decisive for a deeper understanding of structure properties relationships of polymeric materials this book therefore describes and discusses them in detail the mechanical behavior as a function of time and temperature is a key subject of the book the authors present it on the basis of many original results they have obtained in their long research careers they present the temperature dependence of mechanical properties of various polymeric materials in a wide temperature range from cryogenic temperatures to the melt besides an extensive data collection on the transitions of various different polymeric materials they also carefully present the physical explanations of the observed phenomena glass transition and melting temperatures are discussed particularly with their relevance for applications a comprehensive part of the book deals with properties of polymers in the molten state and their decisive influence on the processing of the materials the book presents and discusses viscous and elastic properties in detail as a function of molar mass polydispersity and branching this book addresses students of polymer and materials science as well as other natural sciences besides this educational value it will also serve as a valuable monograph for everyone dealing with polymers and polymeric materials from research over development to applications

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