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Radiation Processing Of Polymer Materials

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Globally, approximately half of the single-use (polymer-

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Applications) medical devices manufactured today are sterilized using ionizing radiation from three main sources – the Co-60 radioisotope (gamma-rays), an electron-beam (e-beam) accelerator, or an e-beam accelerator with a target to convert the beam to X-rays.

Radiation Effects on Polymer Materials

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cal device area, radiation processing is used to manufacture hydrogels and to modify ultra-high molecular weight polyethylene (UHMWPE) for implants. Radiation processing

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is supported by the continued progress in electron beam (EB) accelerator development [4, 5]. A variety of electron beam para-

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radiation processing to polymers are then covered.

APPLICATIONS OF IONIZING RADIATION IN MATERIALS PROCESSING

radiation processing was used early on for polymer modification the irradiation of polymeric materials with ionizing radiation gamma rays x rays accelerated electrons ion beams leads to the formation of

This text examines the effect of radiation on polymers and the versatility of its industrial applications. By helping

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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.

Radiation Technology for Advanced Materials presents a range of radiation technology applications for advanced materials. The book aims to bridge the gap between

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researchers and industry, describing current uses and future prospects. It describes the mature radiation processing technology used in preparing heat shrinkable materials and in wire and cable materials, giving commercial cases. In addition, the book illustrates future applications, including high-performance fibers, special self-lubricating materials, special ultra-fine powder materials, civil fibers, natural polymeric materials, battery separator membranes, special filtration materials and metallic nanomaterials. Chapters cover radiation technology in high-performance fiber and functional textiles, radiation crosslinking and typical applications, radiation crosslinking for polymer foaming material, radiation degradation and application, radiation emulsion polymerization, radiation effects of ionic liquids,

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radiation technology in advanced new materials, and future prospects. Presents a range of radiation technology applications and their application to advanced materials Covers the mature radiation processing technology used to prepare heat shrinkable materials and wire cable materials, describing real-world commercial applications Shows the promising application of radiation technology in preparing high-performance Si and carbon fibers Describes the radiation degradation/radiation effect used to prepare fine powder materials Discusses radiation modification and radiation grafting techniques used to synthesize materials, such as civil fibers, natural polymeric materials and others

Radiation processing is widely employed in plastics

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Applications to enhance the physical properties of polymers, such as chemical resistance, surface properties, mechanical and thermal properties, particle size reduction, melt properties, material compatibility, fire retardation, etc. Drobny introduces readers to the science of ionizing radiation and its effects on polymers, and explores the technologies available and their current and emerging applications. The resulting book is a valuable guide for a wide range of plastics engineers employing ionizing radiation for polymer treatment in a range of sectors including packaging, aerospace, defense, medical devices and energy applications. Radiation resistant polymers are also explored. Unlock the potential of ionizing radiation in applications such as electron-beam curing and laser joining

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Gain an understanding of the selection and safe use of radiation treatment equipment The only detailed guide to ionizing radiation written for the plastics engineering community

This book provides an introduction of how radiation is processed in polymeric materials, how materials properties are affected and how the resulting materials are analyzed. It covers synthesis, characterization, or modification of important materials, e.g. polycarbonates, polyamides and polysaccharides, using radiation. For example, a complete chapter is dedicated to the characterization of biodegradable polymers irradiated with low and heavy ions. This book will be beneficial to all polymer scientists in the development of

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new macromolecules and to all engineers using these materials in applications. It summarizes the fundamental knowledge and latest innovations in research fields from medicine to space.

This practical book sets the standard as a valuable, time-saving resource offering systematic fundamental information about industrial radiation technologies. This new edition explores updates to emerging applications of ultraviolet (UV) and electron beam (EB) radiation to polymer processing and offers updates throughout to detail changes changes, new trends, and general issues in radiation technology. It presents vital, cutting-edge information to aid further reduction of volatile organic compounds and toxic

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Applications in the environment, develop alternative sources of energy, and harness energy in both medical and industrial applications. New features of this edition include: Stresses the practical aspects of UV/EB technology and its industrial application Includes updates on UV radiation processes and applications of UV radiation Explores new engineering data of selected commercial products Written by an expert with over forty years of experience, this book would make an excellent resource for scientists and engineers in the fields of materials science and polymer chemistry.

The Effect of Radiation on Properties of Polymers examines

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Applications

the effects of radiation on plastics and elastomers. Polymers are required in products or parts for a range of cutting-edge applications that are exposed to radiation, in areas such as space, medicine, and radiation processing. This book focuses on the effects of radiation exposure within that environment, providing in-depth data coverage organized by category of polymer. Aspects such as radiation impact on mechanical and thermal properties, including glass transition and heat deflection temperatures, are described, demonstrating how changes in these properties affect the performance of plastic or elastomer parts. The effect of radiation on electrical properties is also included. Supporting introductory chapters explain the key concepts of radiation, including the physical, mechanical, and thermal properties of plastics and

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Elastomers. This is a vital resource for plastics engineers, product designers, and R&D professionals, working on products or parts for radioactive environments, as well as engineers and scientists in the medical, nuclear, and radiation processing industries. The book also supports researchers and scientists in plastics engineering, polymer processing and properties, polymer and coatings chemistry, materials science, and radiation. Brings together highly valuable data on the effect of radiation on the properties of polymers and elastomers Enables the reader to compare properties and to select the best possible materials for specific applications Supported by detailed explanations and analysis, ensuring that the reader understands how to interpret and utilize the data

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The first edition of Radiation Technology for Polymers set the standard as a valuable, time-saving resource offering systematic fundamental information about industrial radiation technologies. Raising the bar even further, Radiation Technology for Polymers, Second Edition explores emerging applications of ultraviolet (UV) and electron beam (EB) radiation to polymer processing, detailing significant changes in the field since the first publication. Presents important new processing and engineering data from selected commercial products Since the publication of the previous edition, many technological developments have taken place, new applications and products have been developed and commercialized, and some already established

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Applications have been discontinued. This book updates changes, trends, and general issues in radiation technology. It presents vital, cutting-edge information to aid further reduction of volatile organic compounds and toxic substances in the environment, develop alternative sources of energy, and harness energy in both medical and industrial applications. The author considers novel uses of UV/EB technology in: Equipment and instrumentation developments in automotive, electronics, and wood-processing industries Applications used in waterborne coatings and adhesives, film modifications, high-performance coatings, and inkjet technology Processing of coatings, paints, inks, and adhesives, as well as thermoplastics and elastomers in film, sheet, and other forms This reference discusses new uses for

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UV and EB irradiation, the response of polymers to irradiation, tests related to dosimetry and radiometry, and related safety and hygiene. It is also fortified with new problems and worked solutions, as well appendices with supplementary information on equipment manufacturers, raw materials suppliers, and principles of green chemistry and sustainability.

Part of the series "New Concepts in Polymer Science", this volume contains information on the main theoretical and practical problems involved in radiation chemistry of polymers. The processes of polymerization and modification of polymers by grafting, crosslinking and degradation, induced by ionizing radiation, are all described, as well as the

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radiation resistance of polymers and their protection from radiation. The book also contains applications of radiation chemistry of polymers, such as: principles of selection of radiation-chemical processes for industrial use; choice of radiation sources for specific processes; modification of textile and film materials by grafting; manufacturing of heat-shrinkable, thermostable and mechanically strong polymer products; composites; rubber vulcanizates and self-adhesive products; paints and coatings; man-made fibres; materials for microelectronics; and polymer materials for medical purposes.

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