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Radiation Effects on Polymers for Biological Use



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Radiation Effects On Polymers For Biological Use

U.S. Atomic Energy Commission



Radiation Effects On Polymers For Biological Use:

Radiation Effects on Polymers for Biological Use Henning Kausch, 2003-07-03 Biomaterials repair reinforce or replace damaged functional parts of the human body All mechanical and biological interactions between an implant and the body occur across the interface which has to correspond as nearly as possible to its particular function Much of the progress in adapting polymer materials for use in a biological environment has been obtained through irradiation techniques For this reason the most recent developments in four key areas are reviewed in this special volume 1 the analysis of the topology and the elemental composition of a functional surface 2 the chemical modification of the surface which results in highly pure sterile and versatile surfaces 3 the sterilisation of implantable devices via ionising radiation and its possible effects on the structural mechanical properties of polymers and 4 the radiation effects on living cells and tissues which are of particular importance for radiation protection and radiotherapy *Carraher's Polymer Chemistry, Ninth Edition* Charles E. Carraher Jr., 2016-04-19 Most of the advancements in communication computers medicine and air and water purity are linked to macromolecules and a fundamental understanding of the principles that govern their behavior These fundamentals are explored in Carraher s Polymer Chemistry Ninth Edition Continuing the tradition of previous volumes the latest edition provides a well rounded presentation of the principles and applications of polymers With an emphasis on the environment and green chemistry and materials this edition offers detailed coverage of natural and synthetic giant molecules inorganic and organic polymers biomacromolecules elastomers adhesives coatings fibers plastics blends caulks composites and ceramics Using simple fundamentals this book demonstrates how the basic principles of one polymer group can be applied to all of the other groups It covers reactivities synthesis and polymerization reactions techniques for characterization and analysis energy absorption and thermal conductivity physical and optical properties and practical applications This edition includes updated techniques new sections on a number of copolymers expanded emphasis on nanotechnology and nanomaterials and increased coverage of topics including carbon nanotubes tapes and glues photochemistry and more With topics presented so students can understand polymer science even if certain parts of the text are skipped this book is suitable as an undergraduate as well as an introductory graduate level text The author begins most chapters with theory followed by application and generally addresses the most critical topics first He provides all of the elements of an introductory text covering synthesis properties applications and characterization This user friendly book also contains definitions learning objectives questions and additional reading in each chapter **Nuclear Science Abstracts** ,1975 **Scientific and Technical Aerospace Reports** ,1987 **Energy Research Abstracts** ,1984 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1976 **ERDA Energy Research Abstracts** ,1976 Library of Congress Subject Headings Library of Congress, **Bibliographies of Interest to the Atomic Energy Program** ,1963 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office, 2003

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The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices. This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics. Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior. Metallization and passivation issues are also covered. Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials. The volume is extensively illustrated with photographs, diagrams, and tables. A bibliography is provided at the end of each article to guide the reader to recent literature. A comprehensive system of cross references, a three level subject index, and an alphabetical list of articles are included to aid readers in the abstraction of information.

Irradiation of Polymeric Materials Elsa Reichmanis, C. W. Frank, James H. O'Donnell, 1993. Focuses on the fundamental aspects of polymer radiation chemistry and the technological significance of the effect of radiation on polymers by examining such topics as the basic processes by which radiation interacts with polymers and the mechanisms that lead to chemical changes in the material. Among the applications described are microlithography, aerospace materials which have to be radiation resistant, and biomedicine. The date and location of the symposium are not noted. Annotation copyright by Book News Inc, Portland, OR.

ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976 DDC Retrieval and Indexing Terminology Defense Documentation Center (U.S.), 1975 Encyclopedia of Materials Science and Engineering, 1989 **Research and Development in Progress** U.S. Atomic Energy Commission. Division of Biology and Medicine, 1968

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