

R. F. CHALKIN

Radiation Physics and Chemistry of Polymers

Second Edition, Revised and Expanded

Edited by R. F. CHALKIN

Second Edition, Revised and Expanded
R. F. CHALKIN

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Radiation Physics And Chemistry Of Polymers

Keizo Makuuchi, Song Cheng



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Radiation Physics and Chemistry of Polymers Feliks Arkad'evich Makhlis, 1975 Radiation physics and chemistry of polymers : F. A. Makhlis. Transl. from Russ. by IPST Staff Feliks A. Machlis, 1975 *Radiation Processing of Polymer Materials and Its Industrial Applications* Keizo Makuuchi, Song Cheng, 2011-12-20 Up to date comprehensive coverage on radiation processed polymer materials and their applications Offering a unique perspective of the industrial and commercial applications of the radiation processing of polymers this insightful reference examines the fundamental scientific principles and cutting edge developments advancing this diverse field Through a variety of case studies detailed examples and economic feasibility analysis *Radiation Processing of Polymer Materials and Its Industrial Applications* systematically explains the commercially viable ways to process and use radiation processed polymeric materials in industrial products In addition this one of kind text Covers important chemistry and processing fundamentals while emphasizing their translation into practical applications of radiation processed polymers Incorporates new applications in nanotechnology biomaterials and recycling Systematically discusses new developments in the field and summarizes past achievements By helping readers from students to scientists engineers technicians and sales and marketing professionals understand and solve problems associated with radiation processing of polymers *Radiation Processing of Polymer Materials and Its Industrial Applications* serves as an essential reference and fills an important gap in the literature **Polymers, Phosphors, and Voltaics for Radioisotope Microbatteries** Kenneth E. Bower, Yuri A. Barbanel, Yuri G. Shreter, George W. Bohnert, 2002-06-19 As the first book written solely on the subject of nuclear batteries and their potential to revolutionize the electronics industry this text will appeal to a broad audience from engineers to energy policy makers This collection of contributions from leading U S and Russian nuclear researchers contains diverse discussions of the problems of using radioactive material for microelectronic power needs and it guides readers to future research in the area of long life high energy density batteries It describes the state of interdisciplinary research in radiochemistry tritium storage semiconductor fabrication integration into MEMS and other electronic devices and much more *Radiation Chemistry of Polymers* , 1996 **Polymer Degradation** W. Schnabel, 1981-12-31 No detailed description available for Polymer Degradation Functional Polymer Blends Vikas Mittal, 2016-04-19 With their broad range of properties polymer blends are widely used in adhesion colloidal stability the design of composite and biocompatible materials and other areas As the science and technology of polymer blends advances an increasing number of polymer blend systems and applications continue to be developed *Functional Polymer Blends Syn* **Cellulose-Based Graft Copolymers** Vijay Kumar Thakur, 2015-04-23 *Cellulose Based Graft Copolymers Structure and Chemistry* discusses the synthesis characterization and properties of multifunctional cellulose based graft copolymers Presenting the contributions of accomplished experts in the field of natural cellulosic polymers this authoritative text Offers an overview of cutting edge technical accomplishmen **Atomic Radiation and Polymers** A. Charlesby, 2016-01-22

Radiation Effects in Materials Volume 1 Atomic Radiation and Polymers considers the theoretical and experimental studies on the association between polymers and atomic radiation The use of radiation in polymer science constitutes a powerful tool for the quantitative study of macromolecules This book consists of 31 chapters and starts with a brief introduction to fundamentals of atomic radiation and polymer structure The next chapters focus on some aspect of atomic radiation including radiation units radiation matter interaction and nuclear and electrical sources of radiation A chapter presents the appropriate methods to study radiation chemistry and polymer Considerable chapters are devoted to the molecular structure chemistry and reactions of polymers This volume also describes some significant chemical changes of radiation Other chapters explore the properties and reactions of various irradiated polymers The remaining chapters deal with radiation protection effects in polymers which are processes wherein small changes in chemical structure within a molecule or in its neighborhood can exert a disproportionately large influence on the overall chemical reactions This book is of value to nuclear and solid state physicists organic and polymer chemists and nuclear engineers and radiobiologists

Crosslinking and Scission in Polymers O. Güven,1990-01-31 Proceedings of the NATO Advanced Study Institute on Advanced Methods of Determination of Crosslinking and Scission in Polymers and Their Effects on Mechanical Properties Kemer Antalya Turkey September 4 16 1988

Radiation Chemistry of Polymers Yoneho Tabata,Yōsuke Katsumura,1991

Principles and Applications of ESR Spectroscopy Anders Lund,Masaru Shiotani,Shigetaka Shimada,2011-01-04 Principles and Applications of ESR Spectroscopy fills the gap between the detailed monographs in ESR spectroscopy and the general textbooks in molecular physics physical chemistry biochemistry or spectroscopy The latter only briefly explain the underlying theory and do not provide details about applications while the currently available ESR textbooks are primarily focused on the technique as such This text is based upon the authors long experience of teaching the subject to a mixed audience in the extreme case ranging from physics to biology The potential of the method is illustrated with applications in fields such as molecular science catalysis and environmental sciences polymer and materials sciences biochemistry and radiation chemistry physics Theoretical derivations have in general been omitted as they have been presented repeatedly in previous works The necessary theory is instead illustrated by practical examples from the literature

Mineral-Filled Polymer Composites Hanafi Ismail,S.M. Sapuan,R.A. Ilyas,2022-01-05 Mineral filled polymer composites are increasingly used for various applications including automotive construction biomedical maritime sport and ballistic due to the advantages of low cost light weight excellent rigidity and high mechanical strength One of two volumes comprising the Mineral Filled Polymer Composites Handbook this volume provides an overview of the latest research trends applications and future directions of advanced mineral fiber reinforced polymer composites It focuses specifically on material selection processing and applications This book Emphasizes the principles governing the behavior of mineral filled composite materials in the field of engineering and their applications Covers systematic material selection tools such as analytical hierarchy process AHP

analytical network process ANP and technique of ranking preferences by similarity of the ideal solution TOPSIS Reviews the use of these materials for various engineering applications Features chapters looking at fabrication techniques and frictional properties Details current research in polymer nanocomposites and particulate polymer composites This book serves as an excellent reference guide for researchers advanced students academics and industry professionals interested in the synthesis of mineral filled polymer and biopolymer composites as well as those pursuing research in the broad fields of composite materials polymers organic inorganic hybrid materials and nano assembly **Green Polymeric Nanocomposites** Satya

Eswari Jujjavarapu,Krishna Mohan Poluri,2020-01-28 Covering fundamentals through applications this book discusses environmentally friendly polymer nanocomposites and alternatives to traditional nanocomposites through detailed reviews of a variety of materials procured from different resources their synthesis and applications using alternative green approaches The text Describes green polymeric nanocomposites that show greater properties in terms of degradability biocompatibility synthesis process cost effectiveness mechanical strength high surface area nontoxicity and environmental friendliness Explains the basics of eco friendly polymer nanocomposites from different natural resources and their chemistry Discusses practical applications that present future directions in the biomedical pharmaceutical and automotive industries This book is aimed at scientists researchers and academics working in nanotechnology biomaterials polymer science and those studying products derived from eco friendly nanomaterials **Micro- and Nano-Structured Interpenetrating Polymer Networks**

Sabu Thomas,Daniel Grande,Uros Cvelbar,K. V. S. N. Raju,Ramanuj Narayan,Selvin P. Thomas,Akhina H.,2016-03-03 This book examines the current state of the art new challenges opportunities and applications of IPNs With contributions from experts across the globe this survey is an outstanding resource reference for anyone involved in the field of polymer materials design for advanced technologies Comprehensively summarizes many of the recent technical research accomplishments in the area of micro and nanostructured Interpenetrating Polymer Networks Discusses various aspects of synthesis characterization structure morphology modelling properties and applications of IPNs Describes how nano structured IPNs correlate their multiscale structure to their properties and morphologies Serves as a one stop reference resource for important research accomplishments in the area of IPNs and nano structured polymer systems Includes chapters from leading researchers in the IPN field from industry academy government and private research institutions

Polymer Degradation Wolfram Schnabel,1981 *Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment* Iuliana Stoica,Omar Mukbaniani,Neha Kanwar Rawat,A. K. Haghi,2021-12-22 The world faces significant challenges as the population and consumption continue to grow while nonrenewable fossil fuels and other raw materials are depleted at ever increasing rates This informative volume provides a technical approach to address these issues using green design and analysis It takes an interdisciplinary look at concepts that can be applied across engineering disciplines in the development of products processes and systems to minimize environmental impacts across all life cycle

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 Nuclear Safety ,1984 **Technical Report Series** WHO Expert Committee on Biological Standardization,1999

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