

# NEW CONCEPTS IN POLYMER SCIENCE

*Series Editor: C. R. H. I. de Jonge*

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## Reactive Oligomers

S.G. Entelis, V.V. Evreinov  
and A.I. Kuzaev

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# Reactive Oligomers New Concepts In Polymer Science

**Raymond Benedict Seymour**



## **Reactive Oligomers New Concepts In Polymer Science:**

**Reactive Oligomers** Entelis, Evreinov, Kuzaev, 2023-03-08 Reactive oligomers ROs constitute a starting material for the production of numerous polymeric materials with a pre assigned set of physico mechanical and physico chemical properties This book is the first to treat systematically various methods for determining the FTD and MWD of functional oligomers Special attention is given to the application of liquid chromatography in different separation modes exclusion gel permeation chromatography GPC and adsorption as well as to the separation of functional oligomers in the critical region SCR at the boundary between the specified modes **New Trends in Natural and Synthetic Polymer Science** Cornelia

Vasile, Gennadii Efremovich Zaikov, 2006 This collection of texts written by well recognised specialists was constituted having in view these important directions of actual research Sustainable economical growth requires safe resources of raw materials for the industrial production Today s most frequently used industrial raw material petroleum is neither sustainable because limited nor environmentally friendly While the economy of energy can be based on various alter native raw materials such as wind sun water biomass as well as nuclear fission and fusion the economy of substances is fundamentally depending on biomass in particular biomass of plants In the last decades because of the crude oil and other natural resources crisis a new alternative has been proposed consisting in utilisation of renewable natural resources as feedstock and fuel among which the biomass is the most promising *Interactions of Polymers With Bioactive And Corrosive Media* T. E. Rudakova, Gennadii

Efremovich Zaikov, Gennadij E. Zaikov, 1994 The successful applications of synthetic polymers in medicine depend mainly on their physico chemical and special characteristics This book deals mainly with the kinetic and structural aspects which are essential for the realization of these characteristics Polymers and Polymeric Materials for Fiber and Gradient Optics

Lekishvili, Nadareishvili, Gennady Zaikov, Khananashvili, 2023-01-06 This book considers general aspects of the theory of polymers applied in optics The main factors affecting the light loss in polymeric wave beam guides PG are discussed and the mechanism of light loss in PG is analysed Polymers applied in fiber optics are classified with reference to methods of fabrication and purification of the materials Technological aspects of material fabrication are considered together with kinetic aspects of polymerisation Updated information on polymerisation kinetics of MMA and styrene and copolymerisation of these monomers with each other is reported Other topics discussed in the book are heterogeneity of optic copolymers association between structure and reactivity of monomers other properties of optic copolymers and areas of their commercial application This volume will be of value and interest to anyone working in the field of optic polymers both in academia and industry **Molecular Dynamics of Additives in Polymers** Alexander Kovarski, 2023-01-27 This volume focuses on the

dynamical behaviour of low molecular additives in solid polymer matrixes It covers types and models of molecular motion in condensed media dependence of motional frequency on particle structure and size temperature volume and stress and polymer properties and polymeric structures Extensive analysis of common regularities of rotational and translational

dynamics of molecules introduced into polymers are given The book also includes experimental techniques for molecular mobility evaluation and features detailed data on rotational dynamics of additives It should be of interest to specialists in various fields of polymer physical chemistry and materials science Interactions of Polymers with Bioactive and Corrosive Media A.L. Lordanskii, Gennady Zaikov, T.E. Rudakova, 2023-01-27

Natural polymers have always been used in medicine However the development of synthetic polymers for use in medicine has occurred only in the last few decades The successful applications of these synthetic polymers in medicine depend mainly on their physico chemical and special characteristics such as biological compatibility with tissues stability durability and elasticity This book deals mainly with the kinetic and structural aspects which are essential for the realization of these characteristics The authors have examined in detail the processes of diffusion chemical and biological diintegration changes in various structural levels induced by chemical and biological media and the problems of simultaneous influence of these media and mechanical strains on polymers used in medicine Researchers in the field of polymer physics and chemistry as well as those who are working with applications of polymers in medicine and biology should find this book useful **Ecological Aspects of Polymer Flame Retardancy**

Gennady Zaikov, Lomakin, 2014-07-30 This book deals with the ecological aspects of polymer flame retardation It deals with methods for estimating polymer flammability the mode of action of modern flame retardants and ecological concerns of the most used halogenated flame retardants **Modern Polymer Flame Retardancy** Lomakin, Gennady Zaikov, 2023-01-06

There are obvious benefits in using flame retardants as many human lives and property are saved from fire A large number of compounds have been identified as being used as flame retardants At present knowledge of long term effects resulting from exposure to flame retardants and their breakdown products is limited The aim of this volume in the book series New Concepts in Polymer Science is to provide a general overview of the nature mechanism of action use and environmental hazards for a number of flame retardants This monograph together with the book by the same authors Ecological Aspects of Polymer Flame Retardancy 1999 will be valuable to anyone interested in the field of flame retardant chemicals **Thermal**

**Oxidation of Polymer Blends** Lyudmila Shibryaeva, Anatoly Popov, Gennady Zaikov, 2006-06-08 To identify the specific features of the kinetics of oxidation of polymer mixtures determine the key structural elements and create a model that can describe the mechanism of thermal oxidation of polymer mixtures it is necessary to determine the relation between the initial structure of a polymer mixture structural rearrangements associated with oxidation and the kinetics of the process The aim of this book is to elucidate the complicated problem concerning the connection between the structure and mechanism of oxidation of heterogeneous and heterophase polymer systems The material presented in this book concerns the specific features of the kinetics of oxidation and those of the structure of polymer systems The book deals with an analysis of the key factors that can affect principally the mechanism of thermal oxidation of polymer mixtures determines the role of the phase morphology structure of components and the interface layer or boundary in the kinetics of oxidation of heterophase system

by an example of mixtures of polyolefines Along with the kinetics of oxidation of heterophase systems problems of investigation of their structural parameters in the oxidized state are considered With this aim the material presented in the book concerns not only the mechanism of oxidation of polymer mixtures but also homopolymers of diverse morphology and model systems

Core Concepts in Polymer Chemistry Omkar Mishra, 2025-02-20 Core Concepts in Polymer Chemistry is a comprehensive textbook designed to introduce undergraduate students in the United States to the exciting and interdisciplinary field of polymer chemistry At the forefront of materials science polymer chemistry offers insights into the design synthesis and applications of polymers playing crucial roles in industries such as healthcare electronics automotive and packaging This book provides a thorough exploration of fundamental principles synthesis methods characterization techniques and applications of polymers Beginning with the basics of polymer structure and nomenclature readers are guided through key concepts of polymerization mechanisms including step growth and chain growth polymerization The text then covers the synthesis and properties of a wide range of polymers from commodity plastics to advanced materials like conductive polymers and biomaterials Emphasis is placed on connecting fundamental concepts to real world applications highlighting the importance of polymer chemistry in addressing global challenges like sustainable materials development and energy storage Illustrative examples case studies and practical exercises are included to reinforce learning and encourage critical thinking Written in an accessible and engaging style Core Concepts in Polymer Chemistry is suitable for undergraduate students majoring in chemistry materials science chemical engineering or related disciplines Whether beginning your journey or seeking to deepen your understanding of polymer science this book is an indispensable guide to mastering the principles and applications of polymer chemistry

**Polymeric Composites** Raymond Benedict Seymour, 1990-12 Part of the new concepts in Polymer science series an overview of Polymeric Composites by an author who is part of the Department of Polymer Science at the University of Southern Mississippi

Radiation Chemistry of Polymers V.S. Ivanov, 2023-03-08 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 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

**US Air Force Plan for Defense Research Sciences**, 1983

**Elementorganic Monomers: Technology, Properties, Applications** Khananashvili, Mukbaniani, Gennady Zaikov, 2006-06-09 New fields of science and technology call for new materials with

valuable performance characteristics Long term resistance to such temperatures can be found only in polymers with chains made up of thermostable fragments Particularly interesting in this respect are elementorganic polymers with inorganic and organo inorganic molecular chains Elementorganic polymers are not only highly thermostable but also perform well under low temperatures sunlight humidity weather etc Thus these polymers especially silicones are widely and effectively used in the electrical radio coal mechanical rubber aircraft metallurgical textile and other industries They are of great utility not only in industry but also in households and in medicine where their merits can hardly be overestimated The need to publish this book arose with the scientific and technical developments of the last decade the reconstruction and technical renovation of existing factories as well as fundamental changes in some syntheses of elementorganic monomers and polymers Moreover nowadays it is essential to train highly skilled chemical engineers with a comprehensive knowledge of current chemistry of the production technology of elementorganic monomers and polymers and of their characteristics and applications

**Polymeric Biomaterials** M. I. Shtilman, 2003-07-28 Polymers and polymer based composites possess a wide spectrum of properties which allow them to be used in a diverse range of medical applications This volume in the book series New Concepts in Polymer Science deals with the application features of polymeric implants their interaction with surrounding living tissues the demands imposed upon the objects implanted and polymeric materials used for their manufacture and the main types of polymers applied and their properties Chapters 1-8 are devoted to various polymer applications in medical and biological fields chapters 9-10 consider individual polymeric materials used in this field This monograph is designed for use as a textbook for specializations in chemical and technological courses in universities as well as a methodical manual and directory for scientists and researchers in both academia and industry

**Polymers for Packaging and Containers in Food Industry** Sukhareva, Yakovlev, Legonkova, 2008-08-22 This book delineates the scientific principles of design and fabrication of packaging materials for food as well as methods for structural modification and other techniques It describes the main practical properties and applications of polymer materials and highlights the analysis of all processes taking place during formations and destruction of

*Synthesis and Characterization of Oligomers* Constantin V. Uglea, Ioan I. Negulescu, 1991-07-24 This book provides an excellent introduction to the fundamentals of oligomer chemistry Each section describes the synthesis separation physico chemical characterization and present and future applications of individual classes of oligomers organized according to the chemical structure of the main chain In addition this book features up to date references from both journals and patents and an extensive appendix covering synthesis and characterization methods of oligomeric derivatives Synthesis and Characterization of Oligomers is a broad state of the art survey and will be useful not only for students and professionals working with oligomers but also chemists who are new to the field

**The Concept of Micellar-Sponge Nanophases in Chemical Physics of Polymers** Yuri Arsenovich Mikheev, Gennady Zaikov, 2004-04-01 The monograph is intended for elucidation of the novel trend in chemical physics regarding the polymer non crystalline

phase It stresses the physical phenomena affecting the kinetics and mechanism of chemical reactions proceeding in the non crystalline polymer matrix NCPM NCPM is depicted in terms of a supramolecular carcass micellar model The model is thought to reflect heterophase packing of polymeric chains which co operate as a molecular chain sponge The NCPM model presented is proved for adequate description of principal structure physical phenomena to elaborate the scheme of structural kinetic modeling of chemical reactions in bulky polymers Structure physical phenomena elucidated in the monograph are peculiarities of polymer plasticization and polymer blending with liquids structural and thermodynamic aspects of sorption of low molecular species properties of ESR spin probes and optical molecular probes features of water absorbed by polymers mechanical and thermal effects generated by the molecular chain sponge supramolecular aspects of NCPM chemical physics This monograph includes the structural kinetic modeling of complex polymer chemical reactions It deals with the problem of mechanism and kinetics of free radical chain reactions using thermal and photochemical model reactions of dibenzoyl peroxide with glassy like polymers cellulose triacetate polycarbonate polystyrene polyamide PA 548 viscoelastic polymers atactic polypropylene polyamide PA 548 polyethylene polyisobutylene melted poly ethylene oxide and isotactic polypropylene In all cases the supramolecular heterophase mechanism of the processes which was unknown for homogeneous systems was proved Furthermore heterophase mechanisms of photochemical reaction between naphthalene and cellulose triacetate and photolysis of poly methyl methacrylate proceeding as a photochain reaction are indicated

**Polymers Derived from Isobutylene. Synthesis, Properties, Application** Yu.A. Sangalov, K.S. Minsker, G.E. Zaikov, 2023-03-08 This monograph aims to give an overview of recent chemical and technological developments in the area of polymers and co polymers derived from isobutylene which have a wide range of industrial applications The scientific basis for presenting the material aEURO application of the acid base theory with a view to the fundamental steps of isobutylene polymerization aEURO is combined with the application of quantum chemical calculations of catalysts linked active centers separate elementary stages of the process and critical analysis of some experimental data In addition a number of problems such as the macrokinetic description of isobutylene polymerization description of the balanced scheme of industrial production of isobutylene polymers and initiation of isobutylene polymerization with the help of immobilized cationic catalysts are discussed Special attention is given to ecological aspects of synthesis and application of isobutylene polymers This book will be of value and interest to researchers in the areas of chemistry and physics of high molecular compounds as well as engineers and technologists specialized in the area of olefins and polyolefins

**Structure and Properties of Conducting Polymer Composites** V.E. Gul, 2023-01-06 The development of the principles of electrically conductive polymer composites and the creation of a wide variety of such materials have had a significant influence on modern technology This volume in the New Concepts in Polymer Science series is devoted to various aspects of the structure and properties of electrically conductive polymer composites This monograph is an attempt to systematize modern ideas on the interconnection of the structure and properties of ECPCs

Specific attention is given to the influence of electric current on kinetics and the direction of chemical interactive processes between such systems and air oxygen. The book also contains a special chapter which is devoted to the practical applications of electrically conductive polymer composites. It should be of use and interest to researchers working in the field.



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