Progress in Polymer Degradation and Stability Research

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Progress In Polymer Degradation And Stability Research:

Progress in Polymer Degradation and Stability Research Herbert W. Moeller, 2007-06-11 Polymer degradation is a change in the properties tensile strength colour shape etc of a polymer or polymer based product under the influence of one or more environmental factors such as heat light or chemicals These changes may be undesirable such as changes during use or desirable as in biodegradation or deliberately lowering the molecular weight of a polymer Such changes occur primarily because of the effect of these factors on the chemical composition of the polymer In a finished product such a change is to be prevented or delayed However the degradation process can be useful from the view points of understanding the structure of a polymer or recycling reusing the polymer waste to prevent or reduce environmental pollution Polymers molecules are very large on the molecular scale which derive their unique and useful properties from their size **Polymer Chemistry Essentials** Siddharth Batra, 2025-02-20 Polymer Chemistry Essentials serves as a comprehensive guide to understanding the fundamental principles theories and applications of polymers Written by esteemed experts in polymer science we offer a systematic approach to exploring the structure synthesis properties and characterization of polymers making it an essential resource for students researchers and professionals alike We cover a wide range of topics beginning with an introduction to the basic concepts of polymer chemistry including definitions classifications and historical developments We then delve into the molecular structure of polymers discussing polymerization reactions polymer architectures and molecular weight determination Our book also explores the properties of polymers including mechanical thermal electrical and optical properties as well as various polymer characterization techniques In addition to discussing the fundamentals we cover advanced topics such as polymer blends composites degradation stability and processing Each chapter is structured with detailed explanations examples and illustrations to facilitate learning and understanding We also provide insights into the latest research trends and emerging technologies making it a valuable reference for staying updated in polymer science and engineering With comprehensive coverage clear explanations and practical insights Polymer Chemistry Essentials is an indispensable resource for anyone looking to deepen their understanding of polymers and their applications across various industries Whether used as a textbook for academic courses or as a reference for professionals our book offers valuable insights into the fascinating world of polymer chemistry Analysis and Performance of Engineering Materials Gennady E. Zaikov, 2015-08-28 This new book facilitates the study of problematic chemicals in such applications as chemical fate modeling chemical process design and experimental design It provides a valuable overview of current chemical processes products and practices and analyzes theories to formulate and prove physicochemical principles It addresses the production and Environmental Degradation of Advanced and Traditional Engineering Materials Lloyd H. Hihara, Ralph P.I. Adler, Ronald M. Latanision, 2013-10-23 One of the main ongoing challenges for any engineering enterprise is that systems are built of materials subject to environmental degradation Whether working with an airframe integrated circuit bridge

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Sustainability in Polymer Technology and Plastic Engineering Tamara Tatrishvili, Neha Kanwar Rawat, Swati Gokul Talele, A. K. Haghi, 2025-04-08 The use of polymer and plastic materials have grown widely in recent years due to their wide ranging applications in both science and engineering This new volume covers the characterization of modern polymer and plastic materials with functional and sustainable applications in various sectors providing a comprehensive overview of the engineering properties of polymer composites and plastic materials Flame Retardant Polymeric Materials Yuan Hu, Xin Wang, 2019-08-22 Flame Retardant Polymeric Materials provides a comprehensive and up to date overview of the field from basic properties and mechanisms of action for flame retardants to emerging methods materials and industrial applications With over 120 black and white images Hu and Wang cover the latest in the development of novel polymer nanocomposites such as graphene CNTs LDHs POSS and techniques such as layer by layer assembly These expert authors also include discussions on the important flame retardant systems based on phosphorus silicon and boron In doing so they highlight the use of flame retardants in varying industries for example construction textiles and aviation This comprehensive handbook is an essential read for students and academics of physics with a particular interest in flame retardant materials It would also be recommended for professionals within the materials science and engineering fields PEEK Blends and Composites Kuruvilla Joseph, Suryasarathi Bose, Saritha Appukuttan, B.D.S. Deeraj, 2025-09-01 PEEK Blends and Composites Synthesis Processing and Applications provides a comprehensive overview of the preparation methods and processing techniques of PEEK related materials and composites and their main applications in various fields This book serves as a valuable resource for materials scientists and engineers seeking comprehensive knowledge on a diverse range of innovative PEEK materials It offers in depth information and analysis of their properties synthesis techniques manufacturing processes improved characteristics and numerous applications Explains the major properties and preparation methods by which PEEK based materials are fabricated Discusses the advantages and disadvantages of various processing techniques providing readers with practical guidance Outlines research challenges and future directions

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