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# POLYMER SURFACE MODIFICATION: RELEVANCE TO ADHESION

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EDITOR: R. L. NARASIMH

# Polymer Surface Modification Relevance To Adhesion

**Kash L. Mittal**



## **Polymer Surface Modification Relevance To Adhesion:**

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**Adhesion, Volume 5** Kash L. Mittal,2009-03-16 The topic of polymer surface modification is of tremendous contemporary interest because of its critical importance in many and varied technological applications where polymers are used Currently there is brisk research activity in unraveling the mechanisms of surface modification and finding ways to prolong the life of surface treatment Also there is acute interest and need to devise new improved and economical means to modify polymer surfaces This book is divided into three parts as follows Part 1 Surface Modification Techniques Part 2 Interfacial Aspects and Adhesion Part 3 General Papers The topics covered include various techniques for surface modification including plasma both vacuum and atmospheric pressure ozone photografting UV photo oxidation laser use of charged particles and others for a variety of polymers longevity of surface treatment hydrophobic recovery fabrication of high density polymer nano dots immobilization of organometallic catalysts on textile carrier materials polymer membrane antifouling properties electroless metallization of polymers effects of surface modification on interfacial shear strength of composites cord rubber adhesion adhesion of UV curable coatings and attachment of hyperbranched polymers plasma polymerization block copolymers application of plasma technology in decontamination of heat sensitive polymer surfaces In essence this book reflects the current state of the knowledge in the arena and represents the work of many renowned scientists and technologists It should be of interest to anyone with a desire or need to learn the latest R D activity in this domain and the information contained here should be very valuable in deciding the optimum surface modification technique for his her particular requirements

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design and functions of various types of reactors Bring out current and potential applications of APP treatment Represent the cumulative wisdom of many key academic and industry researchers actively engaged in this key and enabling technology

**Surfactant Science and Technology** Laurence S. Romsted, 2014-05-05 Surfactant research explores the forces responsible for surfactant assembly and the critical industrial medical and personal applications including viscosity control microelectronics drug stabilization drug delivery cosmetics enhanced oil recovery and foods Surfactant Science and Technology Retrospects and Prospects a Festschrift in honor of Laurence S. Romsted Edited by Wolfram Schnabel, 2014-01-10 This first book to cover the interaction of polymers with radiation from the entire electromagnetic spectrum adopts a multidisciplinary approach to bridge polymer chemistry and physics photochemistry photophysics and materials science The text is equally unique in its scope devoting equal amounts of attention to the three aspects of synthesis characterization and applications The first part deals with the interaction of polymers with non ionizing radiation in the frequency range from sub terahertz via infrared radiation to visible and ultraviolet light while the second covers interaction with ionizing radiation from the extreme ultraviolet to ray photons The result is a systematic overview of how both types of radiation can be used for different polymerization approaches spectroscopy methods and lithography techniques Authored by a world renowned researcher and teacher with over 40 years of experience in the field this is a highly practical and authoritative guide

**The Plasma Chemistry of Polymer Surfaces** Jörg Friedrich, 2012-05-29 More than 99% of all visible matter in the universe occurs as highly ionized gas plasma with high energy content Electrical low and atmospheric pressure plasmas are characterized by continuous source of moderate quantities of energy or enthalpy transferred predominantly as kinetic energy of electrons Therefore such energetically unbalanced plasmas have low gas temperature but produce sufficient energy for inelastic collisions with atoms and molecules in the gas phase thus producing reactive species and photons which are able to initiate all types of polymerizations or activate any surface of low reactive polymers However the broadly distributed energies in the plasma exceed partially the binding energies in polymers thus initiating very often unselective reactions and polymer degradation The intention of this book is to present new plasma processes and new plasma reactions of high selectivity and high yield This book aims to bridge classical and plasma chemistry particularly focusing on polymer chemistry in the bulk and on the surface under plasma exposure The stability of surface functionalization and the qualitative and quantitative measurement of functional groups at polymer surface are featured prominently and chemical pathways for suppressing the undesirable side effects of plasma exposure are proposed and illustrated with numerous examples Special attention is paid to the smooth transition from inanimate polymer surfaces to modified bioactive polymer surfaces A wide range of techniques plasma types and applications are demonstrated

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