

Polymer Yearbook

Edited by

Richard A. Pethrick

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Polymer Yearbook

Valery Shibaev



Polymer Yearbook:

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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

Physical Chemistry Research for Engineering and Applied Sciences, Volume One Eli M. Pearce,Bob A. Howell,Richard A. Pethrick,Gennady E. Zaikov,2015-02-25 The aim of this book is to provide both a rigorous view and a more practical understandable view of industrial chemistry and biochemical physics This book is geared toward readers with both direct and lateral interest in the discipline This volume is structured into different parts devoted to industrial chemistry and biochemical physics and thei

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Handbook of Engineering Polymeric Materials P. Cheremisinoff,1997-07-25 Presenting practical information on new and conventional polymers and products as alternative materials and end use applications this work details technological advancements in high structure plastics and elastomers functionalized materials and their product applications The book also provides a comparison of manufacturing and processing techni

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Handbook of Polymer Blends and Composites A. K.

Kulshreshtha, Cornelia Vasile, 2002 **Physical Chemistry Research for Engineering and Applied Sciences - Three Volume Set** Eli M. Pearce, Bob A. Howell, Richard A. Pethrick, Gennady E. Zaikov, 2015-06-24 This 3 volume set covers new research and applications on physical chemical for engineering and applied sciences Volume 1 discusses the principles and technological implications of industrial chemistry and biochemical physics Volume 2 presents some fascinating phenomena associated with the remarkable features of high performance polymers and also *Progress in Polymer Materials Science* Gennady E. Zaikov, Oleg V. Stoyanov, Elena I. Kulish, 2013-01-24 With chapters by the editors and other experts in the field of polymer science this book covers a broad selection of important research advances in the field including updates on enzymatic destruction and photoelectric characteristics studies on the changes in the polymer molecular mass during hydrolysis and a new type of bioadditive for motor f Polymer Yearbook 15 Richard A. Pethrick, 1998-11-26 This volume contains reviews on state of the art Japanese research presented in the annual Spring and Autumn meetings of the Japanese Polymer Science Society The aim of this section is to make information on the progress of Japanese Polymer Science and on topics of current interest to polymer scientists in Japan more easily available worldwide Polymers as Electrooptical and Photooptical Active Media Valery Shibaev, 2012-12-06 Polymeric materials have special advantages over other materials used for the recording storage and retrieval of information telecommunication transmission and visualization of images The authors describe the synthesis the physico chemical behavior and the applications of these highly sensitive macromolecular systems They discuss the most essential developments in this field For scientists and professionals working in the field of electrooptical and photooptical polymeric materials

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