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BACKGROUND Polysiloxanes
have chains constructed of

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alternately arranged
silicon and oxygen atoms
with organic groups
attached to the silicon
atoms. This structure
gives them a unique
combination of properties

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that hold great interest for a host of practical applications. Although they have been known and manufactured for many years, their applications continue to expand rapidly

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and this boosts progress
in the generation of new
and modified
polysiloxanes.

Polysiloxanes constitute
the oldf"" known class of
silicon-based polymers and

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the broadest one when viewed in terms of the variety of structures differing in topology and the constitution of organic substituents. There are also many and

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various types of siloxane copolymers, some of purely siloxane structure and others of siloxane-organic composition. There is no doubt that polysiloxanes are the most

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technologically important
silicon-based polymers.

The broad class of model
materials known as
silicones is based on
polysiloxanes. They are
also the best known, as

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most research in the area
of silicon polymers has
for many years been
directed towards the
synthesis of new
polysiloxanes, to
understanding their

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properties and to
extending their
applications.

An introduction to the
synthetic, natural,
organometallic and
inorganic polymers -

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integrating scientific principles with modern applications. This fifth edition is based on the American Chemical Society's Committee on Professional Training

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macromolecules and the
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polymer properties at the
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fundamental principles

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based on underlying
chemical structures,
polymer synthesis,
characterization, and
properties. It emphasizes
the logical progression of
concepts and provide

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mathematical tools as
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derived problems for
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problems are also featured
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biology, materials
science, chemical
engineering, and
statistics as needed.

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as well as more advanced

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materials science, polymer
science, and chemical
engineering.

For there is hope of a
tree, If it be cut down,
That it will sprout again

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And that the tender branch
Thereof will not cease.

Job XIV (7) Mankind has
been blessed with a
multitude of resources. In
the beginning he utilized
almost soley replenishable

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items such as vegetation
and animal protein, for
both nourishment and
shelter. Gradually, such
metals as copper and iron
were developed and
replaced wood as a

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material of construction.

Cement and glass, although more plentiful than other minerals, also replaced the use of growing substances. Coal and oil became the primary sources

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of heat and power. Closer to the focus of this book, petroleum products began to replace the vegetable oils, tannin, wool, cotton, leather, silk, rubber, etc. in a host of

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applications. Surely, it was argued, the new materials did the job better and cheaper. What they didn't say is that soon we would run out of oil. In any case, research

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on growing natural
products, now called
renewable resources,
slowed, and these
industries sought only to
maintain their status quo.
The 20th Century saw an

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unprecedented emphasis and dependence on nonrenewable resources as energy sources (petroleum, coal, uranium) and the fabric of technology (drugs, clothing, shelter, tires,

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computer parts). The
predawn of the 21st
Century brings a reali
zation that a cyclic shift
back towards the use of
renewable re sources for
technological application

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is in order.

Everyday Food for Men
Battling Prostate Cancer,
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polymerization reactors, dendrites, self-
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processing. This exceptional text offers extensive listings of laboratory exercises and demonstrations, web resources, and new applications for in-depth analysis of synthetic, natural, organometallic, and inorganic polymers. Special sections discuss

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*human genome and protonics,
recycling codes and solid waste, optical
fibers, self-assembly, combinatorial
chemistry, and smart and conductive
materials.*

*Organometallic Polymers focuses on
the synthesis, characterization, and*

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potential applications of organometallic polymers. The discussion is organized around seven themes: vinyl polymerization of organometallic monomers; condensation polymerization of organometallic monomers; polymer-

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bound catalysts; applications of organotin polymers; developments in organosilicon polymers; phosphonitrile and sulfur nitride polymers; and coordination polymers. This book is comprised of 33 chapters and begins with a general review of polymerized

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vinyl monomers containing transition metals, as well as the reactivity of such monomers in addition to homo- and copolymerizations. The following chapters explore the participation of the ferrocene nucleus in the polymerization of vinylferrocene and

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*its effect on polymer properties;
thermomechanical transitions of
ferrocene-containing polymers;
photocrosslinkable organometallic
polyesters; and supported catalysts for
ethylene polymerization. The
remaining sections discuss antifouling*

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applications of various tin-containing organometallic polymers; structure and applications of polyphosphazenes and polymeric sulfur nitride; and coordination of inorganic ions to polymers. This monograph will be a useful resource for organic chemists

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and research workers in the field.

*The Second Edition of Giant
Molecules presents an introductory
textbook on large molecules that
exhibit specific physical and biological
properties related to their size,
orientation, and environment, making*

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this subject accessible to students from high school to universities. Written by Charles Carragher, author of more than forty books on the subject, this up-to-date guide presents material in an integrated fashion, marrying fundamentals with illustrative

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applications. The text assumes no previous formal scientific training, and includes new and updated questions and answers, a glossary of relevant terms, bibliographies, visual aids, and related Web links in every chapter. Giant Molecules, Second

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Edition will appeal to individuals who have a personal or professional interest in polymers, as well as to college chemistry and materials science students who study polymers. Metal-Containing Polymeric Systems New Trends in Polymer Sciences

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Silicon-Containing Polymers
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of each chapter, newly added content reflects the growing applications in Biochemistry, Biomaterials, and Sustainable Industries. Providing a user-friendly approach to the world of polymeric materials, the book allows students to integrate their chemical knowledge and establish a connection

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between fundamental and applied chemical information. It contains all of the elements of an introductory text with synthesis, property, application, and characterization. Special sections in each chapter contain definitions, learning objectives, questions, case studies and additional reading.

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The first concern of scientists who are interested in synthetic polymers has always been, and still is: How are they synthesized? But right after this comes the question: What have I made, and for what is it good? This leads to the important topic of the structure-property relations to which this book is

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devoted. Polymers are very large and very complicated systems; their characterization has to begin with the chemical composition, configuration, and conformation of the individual molecule. The first chapter is devoted to this broad objective. The immediate physical consequences, discussed in

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the second chapter, form the basis for the physical nature of polymers: the supermolecular interactions and arrangements of the individual macromolecules. The third chapter deals with the important question: How are these chemical and physical structures experimentally determined?

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The existing methods for polymer characterization are enumerated and discussed in this chapter. The following chapters go into more detail. For most applications-textiles, films, molded or extruded objects of all kinds-the mechanical and the thermal behaviors of polymers are of pre

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ponderant importance, followed by optical and electric properties.

Chapters 4 through 9 describe how such properties are rooted in and dependent on the chemical structure.

More-detailed considerations are given to certain particularly important and critical properties such as the solubility

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and permeability of polymeric systems. Macromolecules are not always the final goal of the chemist—they may act as intermediates, reactants, or catalysts. This topic is presented in Chapters 10 and 11.

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bi-national conference was the result
of a joint effort of the Mexican Polymer
Society and the Polymer Chemistry
Division of the American Chemical
Society. The symposium covered a
wide range of subjects from

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fundamental aspects of polymer synthesis to the application of polymers for advanced technologies, including polymer processing and engineering.

This successful textbook undergoes a change of character in the third edition. Where earlier editions covered

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reference source for professionals
involved in the conception, design
and specification stages of a
construction project. The theory
and practical aspects of each
material is covered, with an
emphasis being placed on

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properties and appropriate use,
enabling broader, deeper
understanding of each material
leading to greater confidence in
their application. Containing fifty
chapters written by subject
specialists, Construction Materials

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Reference Book covers the wide range of materials that are encountered in the construction process, from traditional materials such as stone through masonry and steel to advanced plastics and composites. With

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increased significance being placed on broader environmental issues, issues of whole life cost and sustainability are covered, along with health and safety aspects of both use and installation.

"Polymer Science and

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Engineering: Challenges, Needs,
and Opportunities," a report
issued in 1981 by the National
Research Council's ad hoc Panel
on Polymer Science and
Engineering gives ample support
for the urgent need of increased

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commitment to basic studies on
polymers. Needs and
opportunities, mentioned in the
Panel's list, included
polymerization methods, specialty
polymers, high performance
materials, and in situ (reaction

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injection molding) polymerization
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for direct conversion of

monomers/oligomers to useful
shapes. Clearly, in all these and
several other areas, advances in
polymer synthesis are needed.

Whether one takes a look at the

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commodity or specialty polymers
area or considers areas of growing
needs, such as polymers for the
automotive, aerospace,
electronics, communications,
separations, packaging,
biomedical, etc., advances in

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polymer synthesis are needed. Polymeric materials, as they are constantly being modified and improved, fine-tuned for current and additional needs, and more readily adopted by industry and the public, will have a vastly

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expanding influence on everyday
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life. However, lack of long-term
support of meaningful size for
basic research on all facets of
polymer chemistry and
engineering, with particular
emphasis on making needed

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could well stunt the growth of
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polymer synthesis could help
foster or insure that we won't

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have materials with performance profiles to meet requirements of emerging technologies and national needs, in a reasonably economic and timely fashion.

Natural polymers, such as proteins, starch, cellulose, hevea

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rubber, and gum which have been available for centuries, have been applied as materials for food, leather, sizings, fibers, structures, waterproofing, and coatings. During the past century, the use of both natural and synthetic

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polymers has been expanded to include more intricate applications, such as membranes, foams, medicinals, conductors, insulators, fibers, films, packaging and applications requiring high modulus at elevated temperatures.

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The topics in this symposium which are summarized in this book are illustrative of some of the myriad applications of these ubiquitous materials. As stated in forecast in the last chapter in this book, it is certain that

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revolutionary applications of
polymers will occur during the
next decades. Hopefully,
information presented in other
chapters in this book will catalyze
some of these anticipated
applications. It is appropriate that

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these reports were presented at an
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honoring Dr. O.A. Battista who
has gratifying to note that Phillips
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University of Southern Mississippi
who served as the organizer of this
symposium and editor of this
important book.

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undergraduate students with a

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much-needed, well-rounded presentation of the principles and applications of natural, synthetic, inorganic, and organic polymers. With an emphasis on the environment and green chemistry and materials, this fourth edition

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Polymer Applications of
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This book integrates materials science with other engineering subjects such as physics, chemistry and electrical engineering. The authors discuss devices and

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*technologies used by the
electronics, magnetics and
photonics industries and
offer a perspective on the
manufacturing technologies
used in device
fabrication. The new*

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*addition includes chapters
on optical properties and
devices and addresses
nanoscale phenomena and
nanoscience, a subject
that has made significant
progress in the past*

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*decade regarding the
fabrication of various
materials and devices with
nanometer-scale features.
Although in nature the
vast majority of polymers
are condensation polymers,*

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*much publicity has been
focused on functionalized
vinyl polymers. Functional
Condensation Polymers
fulfills the need to
explore these polymers
which form an increasingly*

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*important and diverse
foundation in the search
for new materials in the
twentyfirst century. Some
of the advantages
condensation polymers hold
over vinyl polymers*

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include offering different kinds of binding sites, their ability to be made biodegradable, and their different reactivities with various reagents under diverse reaction

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conditions. They also offer better tailoring of end-products, different tendencies (such as fiber formation), and different physical and chemical properties. Some of the

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*main areas emphasized
include dendrimers,
control release of drugs,
nanostructure materials,
controlled biomedical
recognition, and
controllable electrolyte*

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and electrical properties.

*Research on metal-
containing polymers began
in the early 1960's when
several workers found that
vinyl ferrocene and other
vinylic transition metal*

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*TI -complexes would
undergo polymerization
under the same conditions
as conventional organic
monomers to form high
polymers which
incorporated a potentially*

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*reactive metal as an
integral part of the
polymer structures. Some
of these materials could
act as semi conductors and
possessed one or two
dimensional conductivity.*

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Thus applications in electronics could be visualized immediately. Other workers found that reactions used to make simple metal chelates could be used to prepare

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*polymers if the ligands
were designed properly. As
interest in homogeneous
catalysts developed in the
late 60's and early 70's,
several investigators
began binding homogeneous*

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*catalysts onto polymers,
where the advantage of
homogeneous catalysis -
known reaction mechanisms
and the advantage of
heterogeneous catalysis -
simplicity and ease of*

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*recovery of catalysts
could both be obtained.*

*Indeed the polymer matrix
itself often enhanced the
selectivity of the
catalyst. The first
symposium on*

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Organometallic Polymers,
held at the National
Meeting of the American
Chemical Society in
September 1977, attracted
a large number of
scientists interested in

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this field, both established investigators and newcomers. Subsequent symposia in 1977, 1979, 1983, and 1987 have seen the field mature. Hundreds of papers and patents have

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been published.

*With such a wide diversity
of properties and
applications, is it any
wonder that industry and
academia have such a
fascination with polymers?*

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*A solid introduction to
such an enormous and
important field is
critical to the modern
polymer scientist-to-be,
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*practical problem solving
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millennium, Introduction
to Polymer Science and
Chemistry: A Problem*

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the fundamentals of
polymer science and
polymer chemistry in a
seamless presentation.
Emphasizing polymerization
kinetics, the author uses*

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appreciation for his
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Hermann Staudinger were
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delays in recognizing the contributions of other pioneers in polymer science. Hence, it is gratifying to note that Professor Seymour chaired an American Chemical

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pioneers who, to a large degree, were responsible for the development of the world's second largest industry. ACKNOWLEDGEMENT
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Herman Mark, C.H. Fisher,
and G. Alan Stahl who co
chaired the Symposium on
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Meeting of the American
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Seattle, WA in 1984 and
who contributed a chapter
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is particularly grateful
to Mischa Thomas who typed
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played key roles in
establishing the concepts
of coordination chemistry
occurring at the surfaces

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of solids. This book describes the development of the principals of coordination chemistry of oxide surfaces using analyses of data obtained by these methods. The

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nature, properties,
concentration of the
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and their influence on the
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are investigated. The book

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principles and
experimental techniques of
the various spectroscopy
methods, with special
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linked to macromolecules
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this book demonstrates how
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included because the activity in this area is being treated elsewhere. We have chosen to emphasize chemical routes to modification and have striven to present as balanced a representation of current activity as time and page count permit. Industrial

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applications, both real and potential, are included. Where appropriate, we have encouraged the contributors to include review material to help provide the reader with adequate context. The initial chapter is a review from a historical perspective of polymer

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modification and contains an extensive bibliography. The remainder of the book is divided into four general areas:
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Reactions and Preparation of Block and Graft Copolymers
Modification Through Condensation

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chloroformate, sulfonated polystyrene;
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co-2,3-dimethyl- 1,3-butadiene),
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areas in need of work and potential
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introducing readers to PMSE. The

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second chapter introduces the very basic science, terms and concepts critical to polymer science and technology. Sections two, three and four focus on application areas emphasizing emerging trends and applications. Section five emphasizes

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the essential areas of characterization.
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of the synthesis of the materials.

Proceedings of an ACS-PMSE Division
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Updated to reflect a growing focus on green chemistry in the scientific community and in compliance with the American Chemical Society's Committee on Professional Training guidelines, Carragher's Polymer Chemistry, Eighth Edition integrates the core areas that contribute to

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into the text fabric. Symbols, trade names, websites, and other useful ancillaries appear in the appendices to supplement the text. Based on a symposium sponsored by the Division of Organic Coatings and Plastics Chemistry at the 181st meeting of the American Chemical Society, Atlanta, Ga., Mar. 30-31, 1981.

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Those who recognize that our modern life style is dependent, to a large extent, on the use of organic polymers as thermal and elec

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trical insulators, may be surprised to learn that specific plastics may also be used as conductors of electricity. In addition to demonstrating the versatility of polymers, this use as conductors will lead to developments which were not possible with other available materials of construction. This is a new field which is growing rapidly

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because of intensive research and developmental efforts by many different industrial, governmental and university investigators. Many of these researchers reported advances in this art at a symposium on conductive polymers sponsored by the American Chemical Society's Division of Organic Coatings and Plastics Chemistry

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held at the Second Chemical Congress of the North American Continent at Las Vegas, in August 1980. The proceedings of this timely symposium are presented in this book. The editor wishes to take this opportunity to express his gratitude to the authors who contributed to this book and to the ACS Organic Coatings and Plastics

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*The term biomimetic is comparatively
new on the chemical scene, but the
concept has been utilized by chemists for
many years. Furthermore, the basic idea*

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of making a synthetic material that can imitate the functions of natural materials probably could be traced back into antiquity. From the dawn of creation, people have probably attempted to duplicate or modify the activities of the natural world. (One can even find

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allusions to these attempts in the Bible; e. g. , Genesis 30.) The term "mimetic" means to imitate or mimic. The word "mimic" means to copy closely, or to imitate accurately. Biomimetic, which has not yet entered most dictionaries, means to imitate or mimic some specific

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biological function. Usually, the objective of biomimetics is to form some useful material without the need of utilizing living systems. In a similar manner, the term biomimetic polymers means creating synthetic polymers which imitate the activity of natural

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bioactive polymers. This is a major advance in polymer chemistry because the natural bioactive polymers are the basis of life itself. Thus, biomimetic polymers imitate the life process in many ways. This present volume delineates some of the recent progress being made

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in this vast field of biomimetic polymers. Chemists have been making biomimetic polymers for more than fifty years, although this term wasn't used in the early investigations.

Research on metal-containing polymers began in the early 1960's when several

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workers found that vinyl ferrocene and other vinylic transition metal π -complexes would undergo polymerization under the same conditions as conventional organic monomers to form high polymers which incorporated a potentially reactive metal as an integral

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part of the polymer structures. Some of these materials could act as semi-conductors and possessed one or two dimensional conductivity. Thus applications in electronics could be visualized immediately. Other workers found that reactions used to make simple metal

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chelates could be used to prepare polymers if the ligands were designed properly. As interest in homogeneous catalysts developed in the late 60's and early 70's, several investigators began binding homogeneous catalysts onto polymers, where the advantage of homo

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geneous catalysis - known reaction mechanisms and the advantage of heterogeneous catalysis - simplicity and ease of recovery of catalysts could both be obtained. Indeed the polymer matrix itself often enhanced the selectivity of the catalyst.

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This high school textbook introduces polymer science basics, properties, and uses. It starts with a broad overview of synthetic and natural polymers and then covers synthesis and preparation, processing methods, and demonstrations and experiments. The history of

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