

TABLE 3-1 MONOMERS THAT CAN BE POLYMERIZED BY CHAIN POLYMERIZATION

MONOMER TYPES	
<i>Olefin, Vinyl & Vinylidene</i>	
<i>Various Dienes</i>	
<i>Acetylene</i>	
<i>Cyclic</i>	

The "active site" in Figure 3-6 was an unshared electron. Molecules containing such groups are called free radicals (sounds like some of the guys we hung out with in the late 1960s). Such molecules are extremely reactive, constantly seeking to complete their "outer shell" of electrons. The active site does not have to be a radical, however, but can be a group with an extra electron and, hence, a negative charge (an anion). It could equivalently be a group with a deficit of one electron, hence, a positive charge (a cation)—see Figure 3-21. More on these later. But let's first focus our attention on free radical polymerization.

Free Radical Polymerization

A free radical polymerization can be initiated in a number of ways. One of the most common is to use an initiator such as a peroxide (a molecule containing O—O single bonds) that is relatively stable at room temperature but readily cleaves to give radicals when heated or irradiated (Figure 3-22). This is called homolytic scission, although, if you're an engineer, that is probably information overload. *Initiation* consists of two steps, the formation of the primary radical followed by the addition of this radical to a monomer.

Then we're off to the races! *Propagation* proceeds like a chain reaction, with the

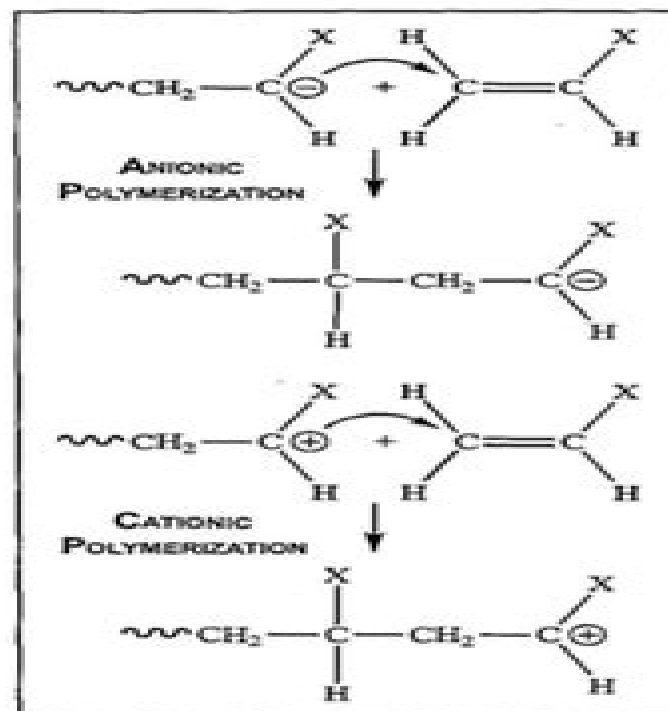


FIGURE 3-21 Schematic depiction of anionic (top) and cationic (bottom) polymerization.

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Fundamentals of Polymer Science and Technology Solutions Manual Paul C. Painter, Michael M. Coleman, 1997

Essentials of Polymer Science and Engineering Paul C. Painter, Michael M. Coleman, 2009 Written by two of the best known scientists in the field Paul C Painter and Michael M Coleman this unique text helps students as well as professionals in industry understand the science and appreciate the history of polymers Composed in a witty and accessible style the book presents a comprehensive account of polymer chemistry and related engineering concepts highly illustrated with worked problems and hundreds of clearly explained formulas In contrast to other books Essentials adds historical information about polymer science and scientists and shows how laboratory discoveries led to the development of modern plastics DEStech Publications web site

The Elements of Polymer Science and Engineering Alfred Rudin, 2012-12-02 This introductory text is intended as the basis for a two or three semester course in synthetic macromolecules It can also serve as a self instruction guide for engineers and scientists without formal training in the subject who find themselves working with polymers For this reason the material covered begins with basic concepts and proceeds to current practice where appropriate Serves as both a textbook and an introduction for scientists in the field Problems accompany each chapter

Solutions Manual to Accompany Essentials of Materials Science Albert G. Guy, 1976 **Polymer Science and Technology** Robert O. Ebewele, 2000-03-23 By consolidating into one volume the fundamentals currently covered piecemeal across several reference this book simplifies the learning of polymer science Its primary focus is the ultimate property of the finished polymer product Part I explains polymer fundamentals Part II discusses how polymers are prepared from monomers and the transformation of polymers into useful everyday articles Part III examines the properties and applications of polymers Polymer Science and Technology presents these aspects of the science in a readily understandable way It emphasizes basic qualitative comprehension of concepts rather than their rote memorization or detailed mathematical analysis *Polymers - Opportunities and Risks I* Peter Eyerer, 2010-08-06 Since their first industrial use polymers have

gained a tremendous success The two volumes of Polymers Opportunities and Risks elaborate on both their potentials and on the impact on the environment arising from their production and applications Volume 11 Polymers Opportunities and Risks I General and Environmental Aspects is dedicated to the basics of the engineering of polymers always with a view to possible environmental implications Topics include materials processing designing surfaces the utilization phase recycling and depositing Volume 12 Polymers Opportunities and Risks II Sustainability Product Design and Processing highlights raw materials and renewable polymers sustainability additives for manufacture and processing melt modification biodegradation adhesive technologies and solar applications All contributions were written by leading experts with substantial practical experience in their fields They are an invaluable source of information not only for scientists but also for environmental managers and decision makers *Polymer Science* Sebastião V. Canevarolo Jr., 2019-12-09 This is an introductory textbook

on polymer science aimed at lecturers professors undergraduate and graduate students of polymer science and technology courses as well as engineering materials chemical civil food etc chemistry and physics It is also aimed at engineers and technologists Each chapter is written starting from simple concepts and progressively getting more complex towards its end to help the reader decide how deep to go into each topic Each chapter also presents the solution of many proposed problems guiding the reader to solve numerically the everyday problems polymer technologists face by applying theoretical concepts Additionally at every chapter s end there is a list of problems for the reader to check his her understanding of the topics The book contains a list of more than 10 experiments to perform in the laboratory linked to some of the concepts discussed in the book It also serves as a long term reference with many figures diagrams tables chemical equations containing frequently needed information It contains as well an appendix with a long list of chemical structures of the main commercially available polymers *STOICHIOMETRY AND PROCESS CALCULATIONS* K.V. NARAYANAN ,B. LAKSHMIKUTTY,2016-12-01

Designed as a textbook for the undergraduate students of chemical engineering and related disciplines such as biotechnology polymer technology petrochemical engineering electrochemical engineering environmental engineering and safety engineering the chief objective of the book is to prepare students to make analysis of chemical processes through calculations and to develop systematic problem solving skills in them The text presents the fundamentals of chemical engineering operations and processes in a simple style that helps the students to gain a thorough understanding of chemical process calculations The book deals with the principles of stoichiometry to formulate and solve material and energy balance problems in processes with and without chemical reactions With the help of examples the book explains the construction and use of reference substance plots equilibrium diagrams psychrometric charts steam tables and enthalpy composition diagrams It also elaborates on thermophysics and thermochemistry to acquaint the students with the thermodynamic principles of energy balance calculations The book is supplemented with Solutions Manual for instructors containing detailed solutions of all chapter end unsolved problems NEW TO THE SECOND EDITION Incorporates a new chapter on Bypass Recycle and Purge Operations Comprises updations in some sections and presents new sections on Future Avenues and Opportunities in Chemical Engineering Processes in Biological and Energy Systems Contains several new worked out examples in the chapter on Material Balance with Chemical Reaction Includes GATE questions with answers up to the year 2016 in Objective type questions KEY FEATURES SI units are used throughout the book All basic chemical engineering operations and processes are introduced and different types of problems are illustrated with worked out examples Stoichiometric principles are extended to solve problems related to bioprocessing environmental engineering etc Exercise problems more than 810 are organised according to the difficulty level and all are provided with answers **1968, Teil 1b: Cephaline-Harnalyse**

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