

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

MONOMER TYPES	
<i>Olefin, Vinyl &amp; 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

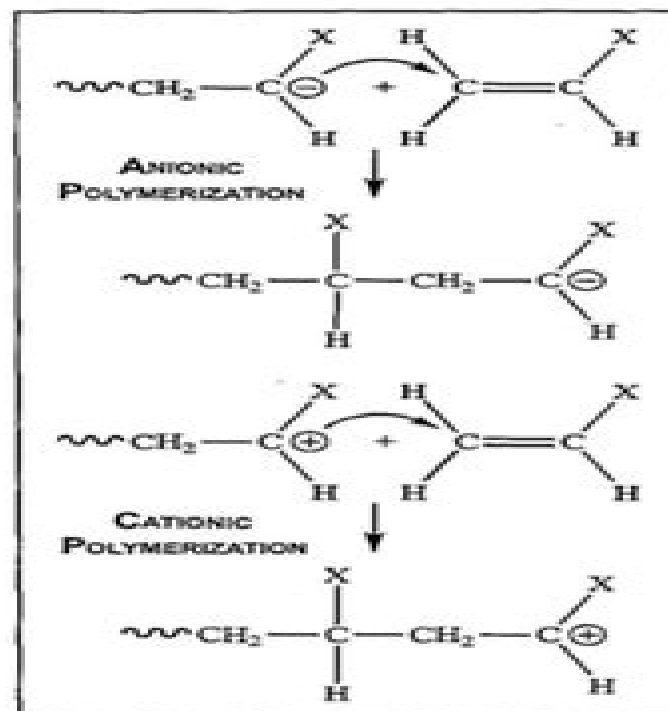


FIGURE 3-21 Schematic depiction of anionic (top) and cationic (bottom) polymerization.

# Solutions Essentials Of Polymer Science And Engineering

**Siddharth Batra**



## **Solutions Essentials Of Polymer Science And Engineering:**

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Gupta, 2003-01-21 Exploring the characterization thermodynamics and structural mechanical thermal and transport behavior of polymers as melts solutions and solids this text covers essential concepts and breakthroughs in reactor design and polymer production and processing It contains modern theories end of chapter problems and real world examples for a clear understanding of polymer function and development Fundamentals of Polymer Engineering Second Edition provides a thorough grounding in the fundamentals of polymer science for more advanced study in the field of polymers Topics include reaction engineering of step growth polymerization emulsion polymerization and polymer diffusion      *Fundamentals of Polymer Engineering, Third Edition* Anil Kumar, Rakesh K. Gupta, 2018-12-07 Exploring the chemistry of synthesis mechanisms of polymerization reaction engineering of step growth and chain growth polymerization polymer characterization thermodynamics and structural mechanical thermal and transport behavior of polymers as melts solutions and solids Fundamentals of Polymer Engineering Third Edition covers essential concepts and breakthroughs in reactor design and polymer production and processing It contains modern theories and real world examples for a clear understanding of polymer function and development This fully updated edition addresses new materials applications processing techniques and interpretations of data in the field of polymer science It discusses the conversion of biomass and coal to plastics and fuels the use of porous polymers and membranes for water purification and the use of polymeric membranes in fuel cells Recent developments are brought to light in detail and there are new sections on the improvement of barrier properties of polymers constitutive equations for polymer melts additive manufacturing and polymer recycling This textbook is aimed at senior undergraduate students and first year graduate students in polymer engineering and science courses as well as professional engineers scientists and chemists Examples and problems are included at the end of each chapter for concept reinforcement      **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

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assembly and self organizing polymers      **Numerical Solution of Nonlinear Boundary Value Problems with Applications** Milan Kubiček, Vladimír Hlaváček (Ing.), 1983      **International Polymer Science and Technology** ,1996

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