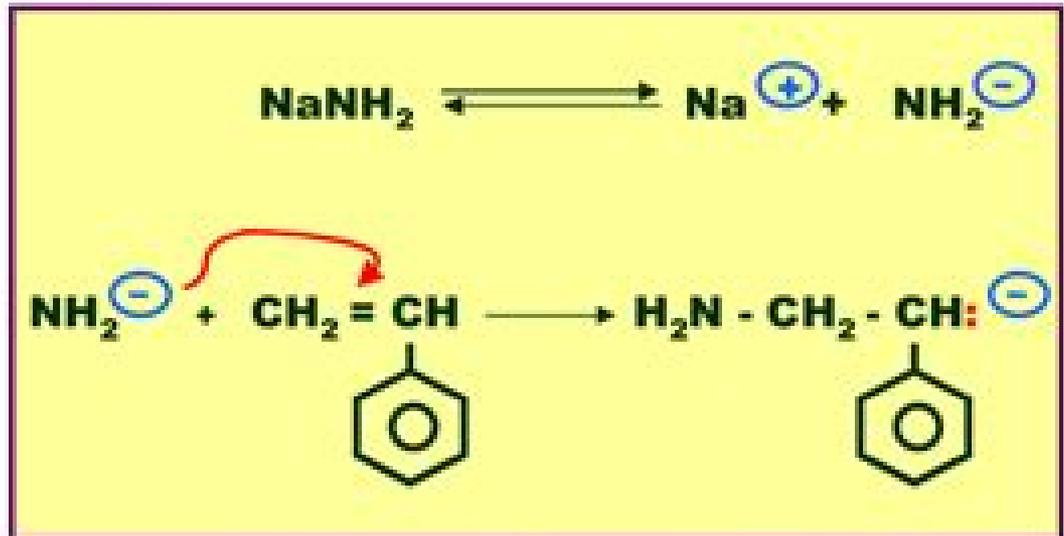


# Anionic Polymerization - Initiation and Propagation

As in free radical polymerization, there are initiation and propagation steps.



Propagation proceeds in the usual manner, but there is no termination of the type that occurs when free radicals collide. (Why not?)



# Anionic Polymerization

**Munmaya K Mishra, Biao Duan**



## **Anionic Polymerization:**

**Anionic Polymerization** Henry Hsieh, Roderic P. Quirk, 1996-03-15 This work introduces the basic theories and experimental methods of anionic polymerization as well as the synthesis analysis and characteristics of anionic polymerized products It details the creation of linear and branched polymers random and block copolymers graft and macromonomers and many other substances The work emphasizes the relations

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describes the unique nature of the anionic mechanism of polymerization This book is composed of two parts encompassing 11 chapters that cover the aspects of the synthetic possibilities inherent in this system Part I deals with the various aspects of anionic polymerization mechanism including the monomers initiators solvents and the involved initiation and propagation reactions This part also describes the copolymerization and organolithium polymerization reactions of styrene and dienes Part II explores the applications of anionic polymerization in polymer synthesis This part specifically tackles the synthesis of narrow molecular weight branched and a difunctional polymers and block copolymers Polymer chemists and researchers who work in the chemical industry and who would wish to utilize the unique features of anionic polymerization in the synthesis of new products will find this book invaluable

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Anionic Polymerization: Kinetics, Mechanisms, and Synthesis James E. McGrath, 1981

Recent Advances in Anionic Polymerization T.E. Hogen-Esch, J. Smid, 2012-12-06 Over the years the field of anionic polymerization has attracted numerous outstanding scientists and today it still is being pursued by many researchers all over the world The exciting discovery of termination less polymerization processes and living polymers culminating in the development of narrow molecular weight polymers star polymers and tailor made block and graft copolymers contributed immensely to the rapid expansion of polymer science Areas of active research in anionic polymerization presently include the structure of ion pairs and their role in regulating polymer structure ring opening polymerization of heterocyclic monomers synthesis of well defined block and graft copolymers including the application of macromers in such systems telechelic polymers with functional end groups and other topics New

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