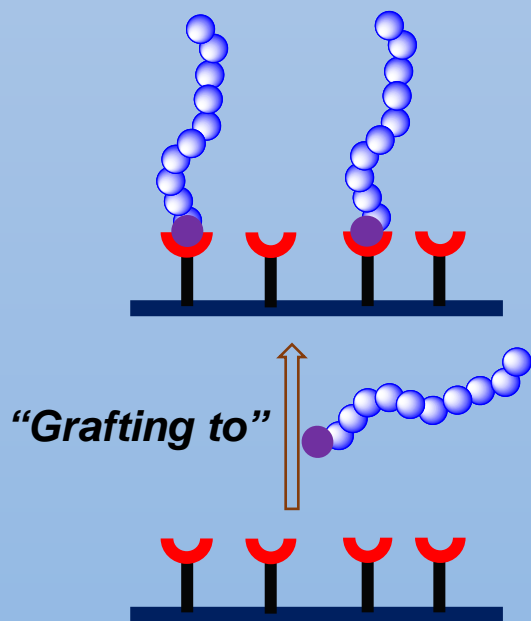


Techniques for Grafting Polymer to a Surface

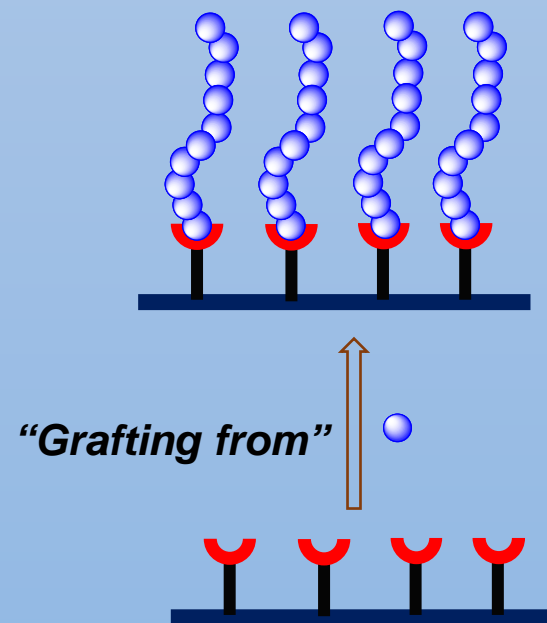
“Grafting to” technique

- ❑ Synthesis of a Polymer with a reactive functional group
- ❑ Coupling of the polymer with the active functional group of the surface with suitable coupling method



“Grafting from” technique

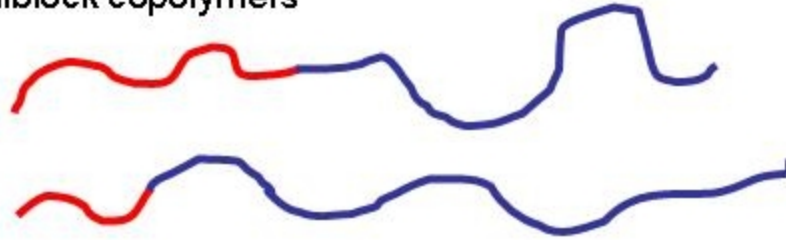
- ❑ Synthesis of the surface with distributed initiating functionality
- ❑ Grafting of Polymer from the surface anchored initiator via controlled polymerization



Linear Copolymers

Linear

diblock copolymers



triblock copolymers

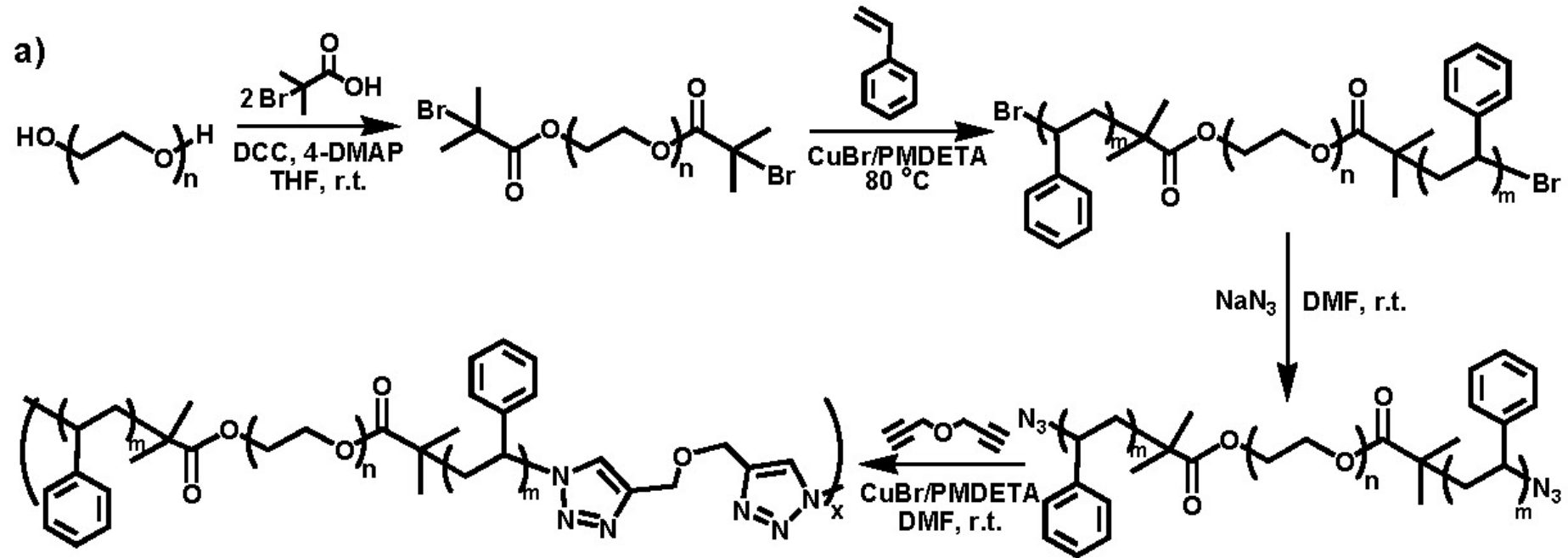
ABA type



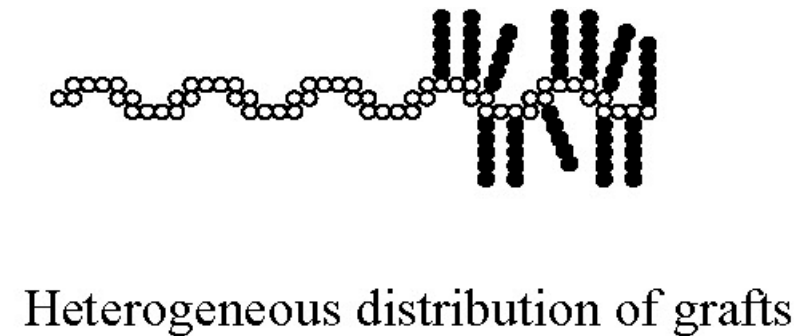
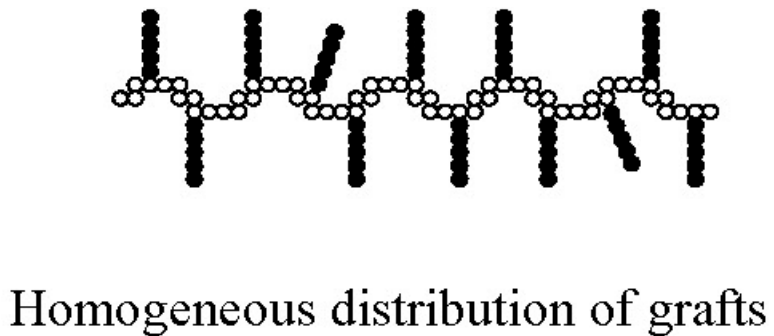
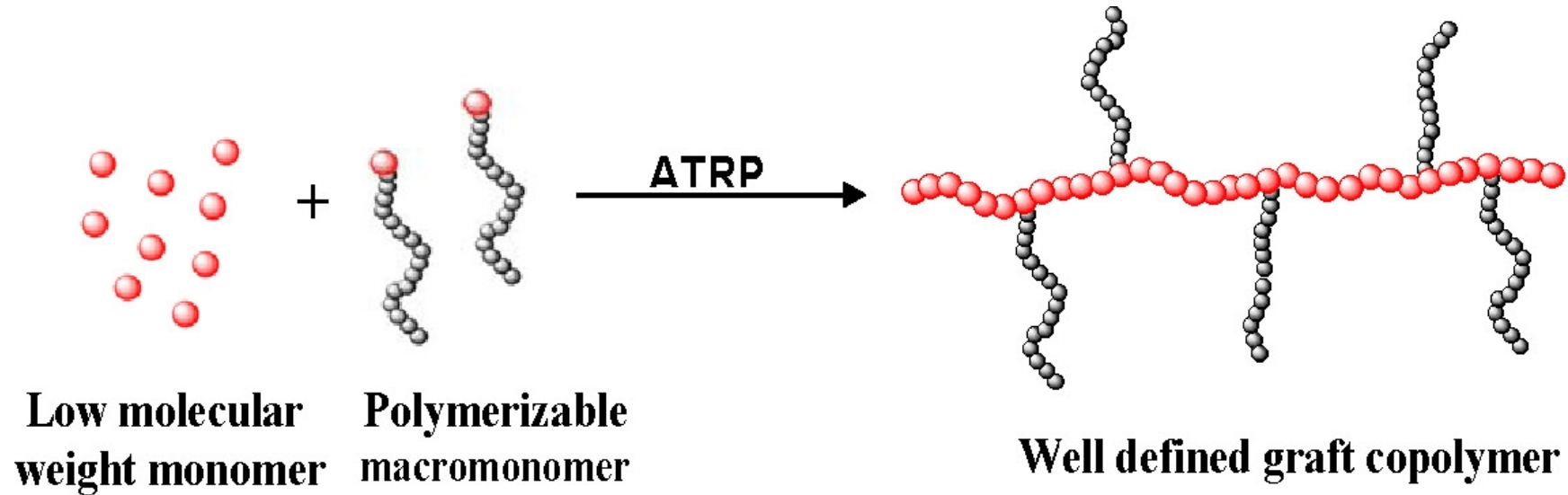
ABC type
(ABCD, ...)



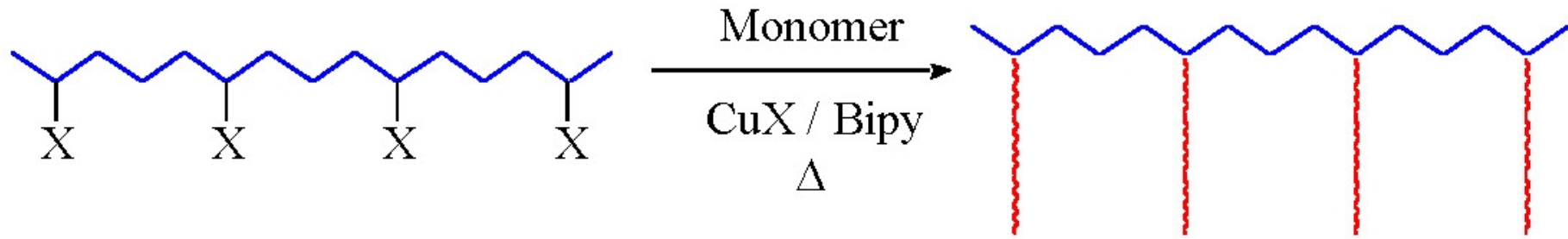
Block Copolymers



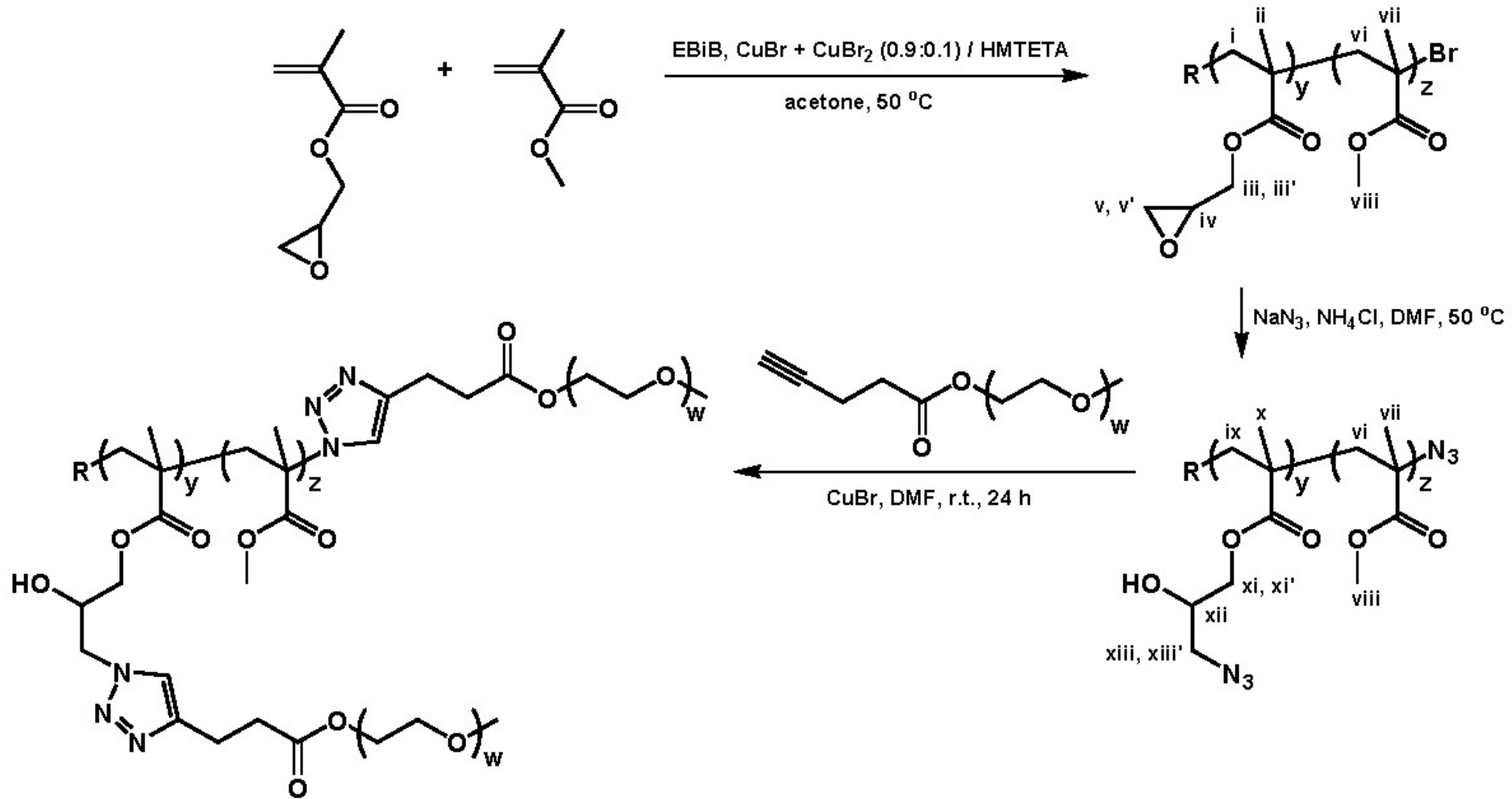
Graft Copolymers: “grafting thorough”



Graft Copolymers: "grafting from"



Graft Copolymers: "grafting to"



- Statistical polymer
 - Reactivity ratios



- Block copolymers
 - Macro initiators
 - ABC type copolymers



- Gradient copolymers

