

PREFACE

Noncovalent interactions play key roles in many natural processes leading to self-assembly of molecules with formation of supramolecular structures. One of the most significant forces responsible for self-assembly is hydrogen-bonding, which also plays an important role in self-assembly of synthetic polymers in aqueous solutions. Proton-accepting polymers can associate with proton-donating polymers via hydrogen-bonding in aqueous solutions and form polymer-polymer or interpolymer complexes. There has been an increased interest of researchers in the hydrogen-bonded interpolymer complexes since the first pioneering papers published in the early 1960s. Several hundreds of research papers have been published on various aspects of the complex formation reactions in solutions and interfaces, the properties of interpolymer complexes and their potential applications.

The book is focused on the latest developments in the area of interpolymer complexation via hydrogen-bonding. It represents a collection of original and review articles written by recognized experts in this field.

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