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Título: Hydrogen-Bonded Interpolymer Complexes

Autor: Khutoryanskiy, Vitaliy/ Staikos, Georgios

Precio: \$1694.00

Editorial:

Año: 2009

Tema:

Edición: 1^a

Sinopsis

ISBN: 9789812707857

Noncovalent interactions play key roles in many natural processes leading to the self-assembly of molecules with the formation of supramolecular structures. One of the most important forces responsible for self-assembly is hydrogen bonding, which also plays an important role in the 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 among researchers in hydrogen-bonded interpolymer complexes since the first pioneering papers were published in the early 1960s. Several hundred research papers have been published on various aspects of complex formation reactions in solutions and interfaces, properties of interpolymer complexes and their potential applications. This book focuses 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 from Germany, Greece, Kazakhstan, Poland, Romania, Russia, UK, Ukraine, and the USA. It highlights many important applications of interpolymer complexes, including the stabilization of colloidal systems, pharmaceuticals, and nanomaterials.

Contents:

pH- and Ionic Strength Effects on Interpolymer Complexation via Hydrogen-Bonding (V V Khutoryanskiy et al.)

Hydrogen-Bonded Interpolymer Complexes Soluble at Low pH (G Staikos et al.)

Potentiometric Investigation of Hydrogen-Bonded Interpolymer Complexation (G Staikos et al.)

Polarized Luminescence and Nanosecond Dynamics in the Studies of Interpolymer Complexes (E V Anufrieva et al.)

Intramolecular Polycomplexes in Block and Graft Copolymers (T Zheltonozhskaya et al.)

Interpolymer Complexes Obtained by Template Polymerization (S Polowinski)

Interpolymer Complexes Containing Copolymers (G-G Bumbu et al.)

Inter- and Intramolecular Polycomplexes in Polydispersed Colloidal Systems (T Zheltonozhskaya)

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Pharmaceutical Applications of Interpolymer Complexes (V V Khutoryanskiy)

Radiation Cross-Linked Hydrogen-Bonding Interpolymer Complexes (A Henke et al.)

Prevention of Soil Migration and Capturing of Radionuclides by Interpolymer Complexes (S E Kudaibergenov et al.)

Hydrogen-Bonded Layer-by-Layer Polymer Films and Capsules (V Kozlovskaya et al.)