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| Nota di contenuto | Intro -- Contents -- Introduction -- Activated Electrophilic Aromatic Compounds Containing Aromatic Heterocycles -- 2-1. Reactivity of Activated Electrophilic Aromatic Compounds Containing Aromatic Heterocycles -- 2-2. Synthesis and Properties of Electrophilic Aromatic Monomers Containing Aromatic Heterocycles -- 2-2-1. Electrophilic Aromatic Monomers Containing Azole and Benzazole Cycles -- 2-2-2. Electrophilic Aromatic Monomers Containing Azine and Benzazine Cycles -- 2-2-3. Electrophilic Aromatic Monomers Containing Imide Cycles -- Poly(Arylene Ethers) Containing Aromatic Heterocycles Based on Activated Electrophilic Monomers -- 3-1. Poly(Arylene Ethers) Based on Azole and Benzazole Containing Electrophilic Monomers -- 3-2. Poly(Arylene Ethers) Based on Azine and Benzazine Containing Electrophilic Monomers -- 3-3. Poly(Arylene Ethers) Based on Imide Containing Electrophilic Monomers -- 3-4. Aromatic Polyethers Based on Electrophilic Monomers Containing Heterocyclic Ortho-Activators -- Bisphenols Containing Heterocyclic Groups -- 4-1. Bisphenols Containing Azole and Benzazole Rings -- 4-2. Bisphenols Containing Azine and Benzanine Rings -- 4-3. Bisphenols Containing Imide and Highly Condensed Heterocycles -- Aromatic Polyethers Based on Bisphenols Containing -- Aromatic Heterocycles -- 5-1. Aromatic Polyethers Based on Bisphenols Containing Azole and Benzazole Rings |

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| | -- 5-2. Aromatic Polyethers Based on Bisphenols Containing Azine and Benzazine Rings -- 5-3. Aromatic Polyethers Based on Bisphenols Containing Imide and Highly Condensed Rings -- Poly(Arylene Ethers) Containing Heterocyclic Units Prepared Using A-B Type Monomers -- Conclusions -- References -- Index -- Blank Page. |
| Sommario/riassunto | Poly (Arylene ethers) (PAEs) represent an important class of condensation polymers, which were used as a basis for obtaining a number of commercial thermoplasts possessing high performance characteristics. The main method used for the synthesis of PAEs is based on the polycondensation of alkali-metal bisphenolates with activated electrophilic monomers such as arylene dinitro compounds and arylene dihalide compounds. These processes belong to reactions of the nucleophilic aromatic polysubstitution type (SNAr2), involving etherification as the polymer forming process. This book presents and reviews research on aromatic polyethers. |