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Nota di contenuto	Frontmatter -- Foreword -- Contents -- 1. Prolegomenon -- 2. Preparation and modification of artificial zeolite by fly ash -- 3. Preparation technology of functional ceramsite -- 4. Preparation and application of montmorilloniteloaded nano-iron material -- 5. Application of functional materials in permeability reactive barriers technology -- 6. Application of functional materials in constructed wetland -- 7. Application of functional materials in biological aerated filter -- 8. The safety assessment and resource utilization of new functional materials -- Index
Sommario/riassunto	This book describes the research results and applications of functional zeolite, functional ceramsite, modified montmorillonite and other functional materials in water purification areas. With abundant project experiences, the book is an essential reference for researchers and PhD students in environmental science, material science, environmental chemistry, as well as industrial engineers.