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| Nota di contenuto | Clays and Clay Minerals: Long Lasting Applications in Environmental Remediation -- Clay Composites: Physico-chemical Characterization -- Computational Chemistry Tools for Atomic Level Investigation of Clay Composites -- Advances in the Development and Applications of Clay–based Composites -- Synthesis and Characterization of Clay–biochar Composites -- Application of Clay-biochar Composites as Adsorbents for Water Treatment -- Clay–biochar Composites: Emerging Applications in Soil -- Mitigation of Greenhouse Gas (GHG) Emissions using Clay-biochar Composites -- Surface Modification of Clay with Organics -- Organoclay with Surfactants: Detoxification of Hazardous Compounds -- Surfactant Modified Clay Composites: Water Treatment Applications. |
| Sommario/riassunto | This book describes the advantages and disadvantages and characterization techniques of clay-composites for environmental applications. It examines the structure and chemistry of different types of clay-composites and their synthesis, characteristics and applications |

in detail with a special focus on upscaling and limitations. Various topics covered in this book include overview of clay composites and their environmental applications, clay-biochar composites, clay-surfactants composites, organo-clay composites, clay hybrids and enriched clay composites. This book will be useful for beginners, researchers, material scientists and engineers who are interested in applied research of clay-based composites.