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Titolo	Functional Phosphate Materials and Their Applications // Sadia Ameen, M. Shaheer Akhtar, Hyung-Shik Shin, editors
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Soggetti	Materials science
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Nota di contenuto	1. Introductory Chapter: An Overview of Phosphate Mineral and Electrochemical Detection of Phosphate for Environmental Remediation -- 2. Inorganic Phosphate: The Backbone of Life -- 3. Phosphorous Paradox and the Unsuspected Intrinsic Property of Human Beings to Dissociate the Water Molecule -- 4. Alternatives to Soluble Phosphorus Fertilizers in Indian Context -- 5. Perspective Chapter: Hydroxyapatite - Surface Functionalization to Prevent Bacterial Colonization -- 6. Use of Plasma Pseudocholinesterase as a Predictor of Mortality in Organophosphate Poisoning -- 7. Perspective Chapter: Optical Remote Sensing for Fluorapatite Content Estimation.
Sommario/riassunto	All living things require phosphorus to survive. As such, it is crucial to investigate phosphate minerals from economic, agricultural, environmental, and health perspectives. The sustainability of human wellbeing on Earth depends on the ability to comprehend this critical resource and how we have used and abused it over time. This book examines the function of phosphate minerals in biology, human health and nutrition, food production, ecosystems, and environmental sustainability. It is a useful resource for readers from a range of backgrounds, including geologists and geochemists, lithologists, environmental scientists and engineers, chemists, and biochemists.