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Lingua di pubblicazione	Inglese
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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Foreword -- Preface -- Chapter 1 Soil Health: An Overview and Goals for These Volumes -- Synopsis of Two-Volume Book -- Introduction -- Why is Soil Health Important? -- Soil Health Indicators and Methods -- Need for Standardization -- Interpretation of Soil Health Information -- Utilizing Soil Health Assessments to Inform Soil Management Decisions -- Summary and Conclusion -- References -- Chapter 2 Evolution of the Soil Health Movement -- Introduction -- Pre-20th Century Soil Awareness -- From 1900 to 1970 -- From 1970 to 2000 - Soil Quality Emerges -- Concept Development -- Soil Quality Assessment -- 21st Century Developments in Soil Health -- References -- Chapter 3 The Utility and Futility of Soil Health Assessment -- Chapter Overview -- Introduction -- Definitions -- Comparison groups -- Scale -- Analytical Methods -- Degrees of Change -- Soil Health Limitations -- Conclusions -- References -- Chapter 4 Metadata: An Essential Component for Interpreting Soil Health Measurements -- Methods and Frequency -- Site Description -- Soil Characterization -- Experimental Descriptors -- Climate and Weather -- Management -- Sample Collection, Preparation, Storage, and Analysis -- Discussion -- Summary -- Acknowledgments -- References -- Chapter 5 Soil Health

Assessment of Agricultural Lands -- Summary -- Overview of Assessments -- Assessment Frameworks -- Initial Soil Health Frameworks -- Soil Health Cards -- Soil Conditioning Index (SCI) -- AgroEcosystem Performance Assessment Tool (AEPAT) -- Rangeland and Forestland Assessment -- Soil Management Assessment Framework (SMAF) -- Comprehensive Assessment of Soil Health (CASH) -- Land-Potential Knowledge System (LandPKS) -- Evolving Soil Health Assessment Activities -- References -- Chapter 6 Soil Health Assessment of Forest Soils -- Introduction. Ecosystem Examples -- Agroforestry -- Carbon Sequestration -- Soil Physical Indicators -- Soil Biological Indicators -- Soil Enrichment and Decontamination -- Tropical Forests -- Environmental Gradients and Future Climate Projections -- Tropical Soil Chemical and Biological Properties -- Earthworms as Bioindicators -- Temperate Forests -- The North American Long-Term Soil Productivity Study -- Temperate Forest Soil Health -- Using National Forest Inventory and Analysis Data to Assess Forest Soil Health -- Forest Soil Health Data Limitations and Management Implications -- Climate Change, Fire Shifts, Invasive Species -- Conclusion: Criteria and Indicators for Monitoring Forest Soil Health -- Summary -- Acknowledgments -- References -- Chapter 7 A Risk-Based Soil Health Approach to Management of Soil Lead -- Introduction -- Urban Soil Lead Assessment and Human Exposure -- Soil Health Based Assessment and Management of Soil Lead -- Practical Assessment of Soil Lead -- Sampling -- Soil Health and Pb Bioavailability Framework -- Case Study -- Summary and Conclusions -- References -- Chapter 8 The Future of Soil Health Assessments: Tools and Strategies -- Introduction -- Sensor Technology -- Soil Biological Properties -- Soil Physical Properties -- Chemical Properties -- Auxiliary Data and Sensor Data Fusion -- Challenges to In situ Data Collection -- Soil Profile Information -- Soil Health Indices -- Conclusions and Future Work -- References -- Epilogue -- EULA.
