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Knowledge Among Cultures in Arid and Semiarid Lands; Soil Knowledge Among Cultures in Mountain Regions; Conclusions; Acknowledgments ReferencesChapter 4. Some Major Scientists (Palissy, Buffon, Thaer, Darwin and Muller) Have Described Soil Profiles and Developed Soil Survey Techniques Before 1883; Abstract; Introduction; 1563,1580: The Auger and Its Use Described by Bernard Palissy; 1734: Description of Soil Horizons, Erosion and Geochemical Cycles by Georges-Louis Ledere de Buffon; 1791: William Bartram, Traveller and Observer of Soils of the United States; 1812: Mapping and Agricultural Soils Analysis by Daniel Albrecht Thaer; 1837: Pedological Profile Drawings by Charles Darwin; 1870-1877: A. Orth
1879,1884: The Natural Forms of Humus and the Birth of Pedology with the Danish Forester P.E. MullerConclusion; Acknowledgement; References; Chapter 5. Souls and Soils: A Survey of Worldviews; Introduction; Summary; References; Section II: Soil as a Natural Body; Chapter 6. The Roots of Dokuchaev's Scientific Contributions: Cadastral Soil Mapping and Agro-Environmental Issues; Introduction; The Scientific Societies; Maps and Cadasters; Grain Yields and Ecological Issues; Conclusion; References
Chapter 7. Philosophical Developments in Pedology in the United States: Eugene Hilgard and Milton WhitneyIntroduction; The Calm Before the Storm; Stormy Skies; A Deluge Begins; ""There is More to Come""; Acknowledgments; Appendix; References; Inset; Chapter 8. Development of the Soil Cover Pattern and Soil Catena Concepts; Introduction; Early Soil Surveys and Initial Accumulation of Soil Cover Pattern Data; Soil Catena Concept as a Component of a Soil Geography Paradigm; Soil Landscape Models and the Soil Cover Pattern Concept; Summary; References Cited
Chapter 9. A History of Soil Geomorphology in the United States

Sommario/riassunto

The history of science discipline is contributing valuable knowledge of the culture of soil understanding, of the conditions in society that fostered the ideas, and of why they developed in certain ways. This book is about the progressive "footprints? made by scientists in the soil. It contains chapters chosen from important topics in the development of soil science, and tells the story of the people and the exciting ideas that contributed to our present understanding of soils. Initiated by discussions within the Soil Science Society of America and the International Union of Soil Sciences, th