1. Record Nr. UNINA9910787575303321 Autore Alexander Earl B. Titolo Soils in natural landscapes / / Earl B. Alexander Pubbl/distr/stampa Boca Raton, Fla.:,: CRC Press,, 2014 **ISBN** 0-429-16817-9 1-4665-9435-7 Descrizione fisica 1 online resource (302 p.) 631.4 Disciplina Soggetti Soils Soil ecology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Front Cover; Contents; Preface; About the Author; Chapter 1: Soils, Landscapes, and Ecosystems; Chapter 2: Soil Parent Material, Weathering, and Primary Particles; Chapter 3: Soil Architecture-Structural Units and Horizons: Chapter 4: Heat and Soil Temperature: Chapter 5: Soil Water, Air, and Climate; Chapter 6: Soil Classification-Kinds of Soils; Chapter 7: Soils and Landscapes; Chapter 8: Primary Production and Plant Nutrition; Chapter 9: Soil Organisms: Life in Soils; Chapter 10: Soil Organic Matter; Chapter 11: Soils and Global Processes; Chapter 12: Land Management and Soil Quality GlossaryAppendix A: Extensive and Intensive Properties and Flow of Heat, Air, and Water in Soils; Appendix B: Forms of Life; Appendix C: Notes on the Elemental Nutrition of Living Organisms; Appendix D: Rock Classification for Nongeologists; Appendix E: Naming the Suborders, Great Groups, and Subgroups in Soil Taxonomy; Appendix F: Taxonomic Names of the Plants; References; Back Cover Sommario/riassunto In any complete investigation of terrestrial ecosystems, rocks and soils must be considered. Soils are essential resources, providing water and nutrients for vascular plants, and mitigating the flow of water from the land. In addition, soil diversity is critical for biotic diversity. While there

> are many references on the agricultural perspective of soils, there is a need for a basic soils book for those concerned with natural landscapes and ecosystems. Soils in Natural Landscapes fills this niche, providing a

thorough introduction to the physics, chemistry, and biology of soils and