Record Nr. UNINA9910139337603321 Autore Matlock Marty D **Titolo** Ecological engineering design [[electronic resource]]: restoring and conserving ecosystem services / / Marty D. Matlock, Robert A. Morgan Hoboken, NJ,: Wiley, 2010 Pubbl/distr/stampa **ISBN** 1-283-02503-5 9786613025036 0-470-94999-6 0-470-87574-7 0-470-87576-3 Descrizione fisica 1 online resource (353 p.) Altri autori (Persone) MorganRobert A Disciplina 628 Soggetti Ecological engineering Environmental engineering Sustainable design 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 and index. Nota di contenuto Ecological Engineering Design; Contents; 1. SUSTAINABLE HUMAN-DOMINATED ECOSYSTEMS: 2. ECOSYSTEM SERVICES; 3. DESIGNING ECOSYSTEM SERVICES; 4. DEFINING PLACE: BIOMES AND ECOREGIONS; 5. DEFINING PLACE: THE WATERSHED; 6. DEFINING PLACE: THE SITE; 7. DEFINING PLACE: SOILS AS A LIVING ORGANISM; 8. FUNDAMENTAL PRINCIPLES OF ECOLOGY FOR DESIGN; 9. ENERGY AND MASS FLOW THROUGH ECOSYSTEMS; 10. DESIGNING COMMUNITY STRUCTURE; 11. ECOSYSTEM CONTROL AND FEEDBACK SYSTEMS; 12. STREAM RESTORATION DESIGN; 13. DESIGNING ECOSYSTEM SERVICES BY LANDFORM; 14. GREEN INFRASTRUCTURE DESIGN 15. LOW IMPACT DEVELOPMENT16. ECOSYSTEM SERVICES DESIGN IN AGRICULTURE AND INDUSTRY: Index Ecologically-sensitive building and landscape design is a broad. Sommario/riassunto intrinsically interdisciplinary field. Existing books independently cover narrow aspects of ecological design in depth (hydrology, ecosystems,

soils, flora and fauna, etc.), but none of these books can boast of the integrated approach taken by this one. Drawing on the experience of

the authors, this book begins to define explicit design methods for integrating consideration of ecosystem processes and services into every facet of land use design, management, and policy. The approach is to provide a prescriptive approach to ecos