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Nota di contenuto	Environmental problems of human settlements and countermeasures based on ecological engineering -- Soil environmental deterioration and ecological rehabilitation -- Amelioration and utilization of saline-alkali land -- Forestry ecological engineering in coastal saline-alkali soils -- Mined lands reclamation by vegetation restoration -- Soil Improvement and Vegetation Construction Technology in Abandoned land of Copper Mining Area -- Discussion on non-point source pollution and control in water source areas -- Impact of landscape pattern changes on water quality -- Eco-village construction and pollution control effect analysis -- Discussion on the overall planning of forest town construction in Simen Town, Yuyao City -- Study on the construction mode of rural human settlement forest in the eastern Zhejiang plain -- Evaluation of air negative ion effect in rural human

settlement forests -- Determination of air anion level in Shanghai coastal shelter forests -- Effects of different greening modes of expressways on air environment -- Research on noise reduction effect of green belts on expressway -- Biodiversity protection technology in the construction of rural landscape -- Impacts of rural Fengshui forest construction on biodiversity -- Distribution characteristics of plant diversity in rural habitats-case study in Xiaoluxia village Index.

Sommario/riassunto

This book analyzes the theory of ecological engineering of human settlements and provides case studies on the improvement of degraded lands and vegetation restoration, especially focusing on saline-alkali land, abandoned land, water source areas, and the impact of green belts on noise and air quality on the highways. In addition, it discusses the issue of biodiversity conservation strategies in rural landscape construction and demonstrates experiment measurement and field survey methods. The results obtained are supplemented by numerical calculations, presented in the form of tables and figures. As the first monograph on this subject, the book provides a wealth of ideas and resources for researchers, professionals and practitioners in the field of human settlements.