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Nota di contenuto	Chapter 1: Methods to study Pedology and Edaphology of Indian Tropical Soils: An Overview -- Chapter 2: Evidence of Clay Illuviation in Soils of the Indo-Gangetic Alluvial Plains (IGP) and Red Ferruginous (RF) Soils -- Chapter 3: Clay Illuviation and Pedoturbation in SAT Vertisols Chapter 4: Cracking Depths in Indian Vertisols: Evidence of Holocene Climate Change -- Chapter 5: Unique Depth Distributions of Clays in SAT Alfisols: Evidence of Landscape Modifications -- Chapter 6: Easy Identifications of Soil Modifiers -- Chapter 7: Mineralogy Class of Indian Tropical soils -- Chapter 8: Hydraulic Conductivity to Evaluate the SAT Vertisols for Deep Rooted Crops -- Chapter 9: Clay and Other

Minerals in Selected Edaphological Issues -- Chapter 10: A Critique on Degradation of HT and SAT Soils in View of Their Pedology and Mineralogy -- Chapter 11: Anomalous Potassium Release and Adsorption Reactions: Evidence of Polygenesis of Indian Tropical Soils -- Chapter 12: Concluding Remarks.

Sommario/riassunto

This book discusses how research efforts have established an organic link between pedology and edaphology of five pedogenetically important soil orders as Alfisols, Mollisols, Ultisols, Vertisols and Inceptisols of tropical Indian environments. The book highlights how this new knowledge was gained when research efforts were complemented by high resolution mineralogical, micro morphological and age-control tools. This advancement in basic and fundamental knowledge on Indian tropical soils makes it possible to develop several index soil properties as simple methods to study their pedology and edaphology. More than one-third of the world's soils are tropical soils. Thus the recent advances in developing simple and ingenious methods to study pedology and edaphology of Indian tropical soils may also be adopted by both graduate students and young soil researchers to aid in the development of a national soil information system to enhance crop productivity and maintain soil health in the 21st century. .
