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Altri autori (Persone)	PalDilip K
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Nota di contenuto	1. Micromorphology of Soils and Paleosols: Overview and Introduction -- 2. New Criteria to Identify Argillans as Evidence of Clay Illuviation -- 3. Modifications of Plasmic Fabric in SAT Vertisols in a Climosequence: Evidence for Holocene Climate Changes -- 4. Micromorphological Criteria to Identify Calcium Carbonates of Pedogenic (PC) and Non-Pedogenic (NPC) Origin in SAT Soils and their Relevance to Pedogenesis and Management -- 5. Micromorphology to understand Landscape Evolutions and Pedogenic Response to Neotectonics and Holocene climatic changes: A Case from Soils of the Ganga Basin -- 6. Micromorphological Approach to Identify Polygenesis in Soils -- 7. Micromorphology of the Paleosols to Reconstruct Late Quaternary Paleoclimatic Record, Alluvial Cyclicity and Stratigraphy of the Ganga Basin -- 8. Micromorphology to Distinguish Diagenetic Overprinting and Paleopedogenic Features in Lithified Paleosols of the Himalayan Foreland Basin -- 9. Micromorphology of the Calcic Soils of the Thar desert: Implication for Climate Change and Origin of Palygorskite -- 10 Summary and Concluding remarks.
Sommario/riassunto	This monograph covers uniqueness of micromorphology in resolving many important but enigmatic pedological issues such as clay

illuviation, formation of pedogenic and non-pedogenic CaCO_3 , modification of plasmic fabric, contemporary and relict pedogenic processes, polygenesis of soils in Alfisols, Mollisols, Ultisols, Vertisols and Inceptisols of the tropical Indian environments. Chapters in this title also include identification of paleosols, diagenetic overprinting of the pedofeatures in lithified paleosols, and alluvial cyclicality of the fluvial successions. The techniques mentioned in this title are of tremendous value in pedological and geological research for precise and unambiguous definitions of soil taxa to build the national soil information and refine the stratigraphy of the terrestrial sediments. The information is for the benefit the students and researchers of pedology and geomorphology who often come across extreme difficulties in relating to examples applying the principles of soil formation from textbooks devoted almost exclusively to soils of the temperate climates. The format of this publication is arranged for a process-oriented text and figures on micromorphology of the tropical soils and paleosols as a reference for pedologists, earth scientists, M.Sc. and Ph. D. students, and also for land resource managers who are engaged in enhancing the productivity of such tropical soils in India and elsewhere.
