

# **Soil Micromorphology**

Lowell A. Douglas

#### Soil Micromorphology:

Soil Micromorphology: Studies in Management and Genesis A.J. Ringrose-Voase, G.S. Humphreys, 1994-08-01 The papers in this volume cover micromorphological studies of a wide variety of topics at various scales from ultramicro to mesoscopic Topics included are soil management soil structure surface crusts hardpans and cemented layers soil biota soil genesis hydromorphic soils paleosols archeology and general pedology. The range of papers reflects the growing use of soil micromorphology in understanding soil problems in land use and the increasing use of quantitative techniques together with more traditional applications in pedology The book is well illustrated with micrographs and contains both author and Interpretation of Micromorphological Features of Soils and Regoliths Georges Stoops, Vera keyword indices Marcelino, Florias Mees, 2010-08-25 Interpretation of Micromorphological Features of Soils and Regolith 2nd edition provides researchers and students with a global tool for interpretation of micromorphological features of regoliths and soils After an introduction and general overview by the editors micromorphological aspects of regoliths e g saprolites unconsolidated sediments transported materials are highlighted followed by a systematic and coherent discussion of the micromorphological expression of various pedogenic processes This is done by discussing diagnostic horizons materials and processes The following topics are also treated freeze thaw features redoximorphic features calcareous and gypsiferous formations textural features spodic and oxic horizons andic and volcanic materials organic and surface horizons laterites surface crusts salts biogenic and inorganic siliceous materials authigenic silicates phosphates thionic and derived materials and features related to faunal activity The last chapters address the impact of anthropic activities with regard to archaeology and palaeopedology Interpretation of Micromorphological Features of Soils and Regolith 2nd edition is written by a team of well known global experts in the field who all used a single set of concepts and terminology making it a valuable interdisciplinary reference The first exhaustive publication on interpretation of micromorphological features Covers related topics making micromorphology more attractive and accessible for geographers archaeologists and quaternary geologists Thematic treatment of a range of soil micromorphology fields broadens the content's applications Authored by a multi disciplinary team ensuring thorough coverage of archaeological geological and earth science disciplines Soil Micromorphology L.A. Douglas, 1990-03-28 The book includes selected papers from those presented at the International Working Meeting on Soil Micromorphology in San Antonio Texas July 1988 Each section of the book is introduced with an invited plenary paper followed by selected contributed manuscripts The volume is intended to give the reader insight into the more recent research work involving soil micromorphology and an evaluation of the present day state of the science New applications of micromorphology to both lunar pedology and archeology are presented Recently developed methods for staining of microorganisms and thin section fluorescence microscopy are presented The volume presents a summary of the research findings of the major practitioners of soil morphology and will give the reader insight as to the present state of the discipline New methods and techniques will be

made available to the reader The book is intended for students practicing micromorphologists soil scientists geologists and geomorphologists Geoarchaeology in Action Charles French, 2005-06-27 Geoarchaeology in Action provides much needed hands on methodologies to assist anyone conducting or studying geoarchaeological investigations on sites and in landscapes irrespective of date place and environment The book sets out the essential features of geoarchaeological practice and geomorphological processes and is deliberately aimed at the archaeologist as practitioner in the field It explains the basics what can be expected what approaches may be taken and what outcomes might be forthcoming and asks what we can reasonably expect a micromorphological approach to archaeological contexts data and problems to tell us The twelve case studies are taken from Britain Europe and the Near East They illustrate how past landscape change can be discovered and deciphered whether you are primarily a digger environmentalist or soil micromorphologist Based on the author's extensive experience of investigating buried and eroded landscapes the book develops new ways of looking at conventional models of landscape change With an extensive glossary bibliography and more than 100 illustrations it will be an essential text and reference tool for students academics and professionals Soil Micromorphology Lowell A. Douglas, 1990 Soils and Micromorphology in Archaeology Richard I. Macphail, Paul Goldberg, 2018 This book uniquely focuses on all aspects of archaeological soil micromorphology based upon the authors joint sixty years of worldwide studies New Trends in Soil Micromorphology Selim Kapur, Georges Stoops, 2008-08-17 The soil water retention curve the saturated hydraulic conductivity and the unsaturated hydraulic conductivity function are basic soil hydraulic functions and parameters Ample apprehension of the soil hydraulic functions and parameters is required for a successful formulation of the principles leading to sustainable soil management agricultural production and environmental protection From these all the other parameters required in the solution of the practical tasks are derived The basic soil hydraulic functions are strongly dependent upon the soil porous system The development of models is characteristic by the gradual transition from the simplest concepts up to the sophisticated approaches which should correspond to the visual reality studied by soil micromorphology 2 Soil Porous System and Soil Micromorphometry 2 1 An Overview on the Quantification of the Soil Porous System Quanti cation of the soil porous system consists of classication of soil pores chacterization of the soil pores shapes and the estimation of the pore size distribution function When the hydraulic functions of the soil pores are considered the following laws of hydrostatics and hydrodynamics are applied as best tting to the classi cation criteria of the size of the pores Kutilek and Nielsen 1994 p 20 Kutilek 2004 A Submicroscopic pores that are so small that they preclude clusters of water molecules from forming uid Archaeological Soil and Sediment Micromorphology Cristiano Nicosia, Georges particles or continuous water ow paths Stoops, 2017-10-23 Archaeological Soil and Sediment Micromorphology goes beyond a mere review of current literature and features the most up to date contributions from numerous scientists working in the field The book represents a groundbreaking and comprehensive resource covering the plethora of applications of micromorphology in archaeology

Archaeological Soil and Sediment Micromorphology offers researchers students and professionals a systematic tool for the interpretation of thin sections of archaeological contexts This important resource is also designed to help stimulate the use of micromorphology in archaeology outside Europe where the technique is less frequently employed Moreover the authors hope to strengthen the proper application of soil micromorphology in archaeology by illustrating its possibilities and referring in several cases to more specialized publications for instance in the field of plant remains pottery and phytoliths Written for anyone interested in the topic this important text offers Contributions from most of the world's leading authorities on soil micromorphology A series of chapters on the major topics selected among the most recurrent in literature about archaeological soil micromorphology Systematic descriptions of all important micromorphological features Special analytical tools employed on thin sections such as SEM EDS image analysis fluorescence microscopy mass spectrometry among others Numerous cross references 400 illustrated full colour plates The resource provides the most current and essential information for archaeologists geoarchaeologists soil scientists and sedimentologists Comprehensive in scope Archaeological Soil and Sediment Micromorphology offers professionals and students a much needed tool for the interpretation of thin Soil Micromorphology Georges Stoops, Hari Eswaran, 1986 sections of archaeological contexts and Sediment Micromorphology Cristiano Nicosia, Georges Stoops, 2017-08-10 Archaeological Soil and Sediment Micromorphology goes beyond a mere review of current literature and features the most up to date contributions from numerous scientists working in the field The book represents a groundbreaking and comprehensive resource covering the plethora of applications of micromorphology in archaeology Archaeological Soil and Sediment Micromorphology offers researchers students and professionals a systematic tool for the interpretation of thin sections of archaeological contexts This important resource is also designed to help stimulate the use of micromorphology in archaeology outside Europe where the technique is less frequently employed Moreover the authors hope to strengthen the proper application of soil micromorphology in archaeology by illustrating its possibilities and referring in several cases to more specialized publications for instance in the field of plant remains pottery and phytoliths Written for anyone interested in the topic this important text offers Contributions from most of the world's leading authorities on soil micromorphology A series of chapters on the major topics selected among the most recurrent in literature about archaeological soil micromorphology Systematic descriptions of all important micromorphological features Special analytical tools employed on thin sections such as SEM EDS image analysis fluorescence microscopy mass spectrometry among others Numerous cross references 400 illustrated full colour plates The resource provides the most current and essential information for archaeologists geoarchaeologists soil scientists and sedimentologists Comprehensive in scope Archaeological Soil and Sediment Micromorphology offers professionals and students a much needed tool for the interpretation of thin sections of archaeological contexts

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