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Soil Analysis: Recent Trends and Applications Phonetics in ancient India Soil in Criminal and Environmental Forensics Forensic Analysis on the Cutting Edge Wiley Encyclopedia of Forensic Science, 5 Volume Set Points of Mutual Advantage Management of Saline Soils Microbial Resource Conservation

Booklet describing salt-affected soils, causes of soil salinity, drainage, reclamation measures, environmental considerations, effects of excess salts and water on plants, and managing salt-affected lands. A glossary is included. This introductory volume to a new series on Soil Forensics gives a kaleidoscopic view of a developing forensic expertise. Forensic practitioners and academic researchers demonstrate, by their joint contributions, the extent and complexity of soil forensics. their reports exemplify the broad range of sciences and techniques applied in all stages of forensic soil examinations, from investigations at crime scenes to providing evidence that can be used in court proceedings. Moreover the necessity is depicted of co-operation as a condition for any work in soil forensics between scientists of different disciplines, but no less between scientists and law enforcers. Soils play a role in environmental crimes and liability, as trace evidence in criminal investigations and, when searching for and evaluating, buried human remains. This book shows soil forensics as practiced in this legal context, emerging and solidifying in many countries all over the world, differing in some respects because of differences in legal systems but ultimately sharing common grounds. This title brings forensic scientists and chemists up-to-date on the latest instrumental methods for analysing trace evidence, including mass spectrometry, image analysis, DIOS-MS, ELISA characterization, statistical validation, and others. Illustrates comparative analysis of trace evidence by both old and new methods. Explains why some newer methods are superior to older, established methods. Includes chapters on analysis of DNA, ink, dyes, glitter, gun powder traces, condom trace evidence, footwear impressions, toolmark impressions, surveillance videos, glass particles, and dirt. Discusses applications such as mass spectrometry, image analysis, desorption-ionization on silicon mass spectrometry (DIOS-MS), ELISA characterization, and statistical validation. Soil analysis is critically important in the management of soil-based production systems. In the absence of efficient methods of soil analysis our understanding of soil is pure guesswork. Ideally the pro-active use of laboratory analysis leads to more sustainable soil productivity. Unfortunately, most of the world's agriculture is still reactionary, waiting for obvious yield declines to occur before taking action to identify the reasons. The modern soil laboratory is pivotal to informing soil managers what adaptive practices are needed to address chemical and physical imbalances before they occur, and the intelligent adaptive use of laboratory data not only greatly speeds up and reduces the cost of empirical soil study, but can even render it unnecessary. This book provides a synopsis of the analytical procedures used for soil analysis, discussing the common physical, chemical and biological analytical methods used in agriculture and horticulture. Written by experienced experts from institutions and laboratories around the globe, it provides insights for a range of users, including those with limited laboratory facilities, and helps students, teachers, soil scientists and laboratory technicians increase their knowledge and skills and select appropriate methods for soil analysis. This book covers broad areas in the conservation of microorganisms. It addresses the short, medium and long-term preservation of agriculturally important microorganisms, as well as culture collections and their roles. The respective chapters address topics such as conventional approaches to bacterial, fungal and algal preservation, as well as methods and strategies for preserving recalcitrant microorganisms. Readers will also find the

latest insights into the preservation of vesicular-arbuscular (VA) fungi and ecology, diversity and conservation of endophytes, and entamopathogenic fungi. Microbes of animal and dairy origin, their preservation and biosafety issues are also explored. Microorganisms are the silent and unseen majority of life on Earth, and are characterized by a high degree of genetic and metabolic diversity. It is well documented that no branch of science or society is unaffected by microbial interventions. Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents, and with specific traits that are currently being exploited in agriculture, industry, medicine and biotechnological applications. Such great potential can only be found in microorganisms. The aim of this book - the first entirely devoted to the conservation of microorganisms, and to regulatory mechanisms for access and benefits sharing as per Biological Diversity (BD) Act 2002 - is to promote awareness of our world's microbial wealth, and to introduce readers to strategies and methodologies for the conservation of microorganisms, which could ultimately save human life on Earth. The Encyclopedia of Forensic Sciences provides a comprehensive, definitive, and up to date reference of the main areas of specialist and expert knowledge and skills used by those involved in all aspects of the forensic process, including, but not limited to forensic scientists, doctors, practicing and academic lawyers, para-legals, police, crime scene investigators, analytical chemists, toxicologists, etc. The Encyclopedia of Forensic Sciences covers all areas of specialist and expert knowledge and skill which, either as part of an established forensic discipline or as a potentially useful emerging discipline, are of interest to those involved in the forensic process. This includes both the scientific methodology and the admissibility of evidence. The encyclopedia also includes case studies of landmark cases in the definition and practice of forensic science. The Encyclopedia of Forensic Sciences presents all material on a level and in a style that makes it accessible to a wide range of readers. Lawyers will be able to understand the science behind scientific evidence, scientists will understand the legal aspects, physical scientists will have access to biological and social sciences aspects and vice versa.