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Soil Chemical Methods – Australasia . By G.E. Rayment & D.J. Lyons . Published by CSIRO Publishing , Collingwood, Vic. 3066, Australia (<http://www.csiro.publish.au>) 2010 . xi + 495 p. AUS\$140. Hardback (ISBN 978 0 643 06768 4). This is one of those splendid publications that supports one of the unsung areas of soil science.

"This book supersedes and updates the soil chemical testing section of the 1992 Australian laboratory handbook of soil and water chemical methods of Rayment and Higginson..."--P. [4] of cover.

Volume 3 of a three-volume set of Australian Soil and Land Survey Handbooks for the practising chemist/analyst, setting out guidelines for the survey of components of land resources. It is designed to minimise the effect of such variables in surveying as the choice of analytical methods, quality of field sampling, preservation of samples, etc, and to promote standardisation of soil and water analysis.

A thorough presentation of analytical methods for characterizing soil chemical properties and processes, Methods, Part 3 includes chapters on Fourier transform infrared, Raman, electron spin resonance, x-ray photoelectron, and x-ray absorption fine structure spectroscopies, and more.

The Australian Soil Classification provides a framework for organising knowledge about Australian soils by allocating soils to classes via a key. Since its publication in 1996, this book has been widely adopted and formally endorsed as the official national system. It has provided a means of communication among scientists and land managers and has proven to be of particular value in land resource survey and research programs, environmental studies and education. Classification is a basic requirement of all science and needs to be periodically revised as knowledge increases. This Second Edition of The Australian Soil Classification includes updates from a working group of the National Committee on Soil and Terrain (NCST), especially in regards to new knowledge about acid sulfate soils (sulfidic materials). Modifications include expanding the classification to incorporate different kinds of sulfidic materials, the introduction of subaqueous soils as well as new Vertosol subgroups, new Hydrosol family criteria and the consistent use of the term reticulate. All soil orders except for Ferrosols and Sodosols are affected by the changes.

The Australian Soil and Land Survey Field Handbook specifies methods and terminology for soil and land surveys. It has been widely used throughout Australia, providing one reference set of definitions for the characterisation of landform, vegetation, land surface, soil and substrate. The book advocates that a comprehensive suite of land and soil attributes be recorded in a uniform manner. This approach is more useful than the allocation of land or soil to preconceived types or classes. The third edition includes revised chapters on location and vegetation as well as some new landform elements. These updates have been guided by the National Committee on Soil and Terrain, a steering committee comprising representatives from key federal, state and territory land resource assessment agencies. Essential reading for all professionals involved in land resource surveys, this book will also be of value to students and educators in soil science, geography,

ecology, agriculture, forestry, resource management, planning, landscape architecture and engineering.

Over forty years ago, concern was first focussed on cadmium contamination of soils, fertilisers and the food chain. Adverse effects on human health were first highlighted nearly 30 years ago in Japan with the outbreak of Itai-itai disease. Since then, substantial research data have accumulated for cadmium on chemistry in soils, additions to soils, uptake by plants, adverse effects on the soil biota and transfer through the food chain. However, this information has never been compiled into a single volume. This was the stimulus for the Kevin G. Tiller Memorial Symposium "Cadmium in Soils, Plants and the Food Chain", held at the University of California, Berkeley, in June 1997 as part of the Fourth International Conference on the Biogeochemistry of Trace Elements. This symposium brought together leading scientists in the field of cadmium behaviour in soils and plants, to review the scientific data in the literature and highlight gaps in our current knowledge of the subject. This series of review papers are presented here and deal with the chemistry of cadmium in soils, the potential for transfer through the food chain and management to minimise this problem. We hope this information provides a sound scientific basis to assist development of policies and regulations for controlling cadmium in the soil environment.

This work is intended for advanced readers interested in methods of sustainable land management - the prevention and control of land degradation. It offers a coherent view of the situation concerning land degradation and the human response to the problem. It is generally recognized that technological solutions alone cannot solve the problems of lan

Wildland fires are occurring more frequently and affecting more of Earth's surface than ever before. These fires affect the properties of soils and the processes by which they form, but the nature of these impacts has not been well understood. Given that healthy soil is necessary to sustain biodiversity, ecosystems and agriculture, the impact of fire on soil is a vital field of research. *Fire Effects on Soil Properties* brings together current research on the effects of fire on the physical, biological and chemical properties of soil. Written by over 60 international experts in the field, it includes examples from fire-prone areas across the world, dealing with ash, meso and macrofauna, smouldering fires, recurrent fires and management of fire-affected soils. It also describes current best practice methodologies for research and monitoring of fire effects and new methodologies for future research. This is the first time information on this topic has been presented in a single volume and the book will be an important reference for students, practitioners, managers and academics interested in the effects of fire on ecosystems, including soil scientists, geologists, forestry researchers and environmentalists.

Reviews existing knowledge in the natural and engineering sciences to determine the rates, lifetimes, routes, and reservoirs of chemicals moving through the environment and to estimate the level of exposure to susceptible living and nonliving targets. Uses simple models and ideas as guides in constructing integrated environmental and ecosystem models for simulating chemical movement and fate. Coverage includes phase equilibrium and transport processes; the interphase and intraphase transport process; movement of inorganic and organic chemicals across the air-water interface; desorption of chemicals from the mud-water interface; volatilization of pesticides from air-soil surfaces; and vertical distribution of dissolved, reactive chemicals in stratified waterbodies. Includes numerous problems from current literature and appendices with chemical, physical, transport, and environmental data.

Soils: Genesis and Geomorphology is a comprehensive and accessible textbook on all aspects of soils. The book's introductory chapters on soil morphology, physics, mineralogy and organisms prepare the reader for the more advanced and thorough treatment that follows. Theory and processes of soil genesis and geomorphology form the backbone of the book, rather than the emphasis on soil classification that permeates other less imaginative soils textbooks. This refreshingly readable text takes a truly global perspective, with many examples from around the world sprinkled throughout. Replete with hundreds of high quality figures and a large glossary, this book will be invaluable for anyone studying soils, landforms and landscape change. *Soils: Genesis and Geomorphology* is an ideal textbook for mid- to upper-level undergraduate and graduate level courses in soils, pedology and geomorphology. It will also be an invaluable reference text for researchers.

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