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Autore	Tungseth Mai Ellin
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Nota di contenuto	Trace Elements in Soils; Contents; Preface; List of Contributors; SECTION 1 BASIC PRINCIPLES, PROCESSES, SAMPLING AND ANALYTICAL ASPECTS; 1 Introduction; References; 2 Trace Elements: General Soil Chemistry, Principles and Processes; 2.1 Introduction; 2.2 Distribution of Trace Elements in the Soil; 2.3 Chemical Species; 2.4 Sorption and Desorption; 2.4.1 Sorption Mechanisms; 2.4.2 Sorption Isotherms; 2.5 Precipitation and Dissolution; 2.6 Mobilization of Trace Elements; 2.6.1 pH and Redox Potential; 2.6.2 Influence of Soil Constituents; 2.7 Transport; 2.8 Plant Uptake; 2.9 Concluding Remarks References3 Soil Sampling and Sample Preparation; 3.1 Introduction; 3.2 Soil Sampling; 3.3 Errors Associated with Soil Sampling and Preparation; 3.4 Overview of the Current Situation; 3.5 Scale and Variability; 3.6 Conclusions; References; 4 Analysis and Fractionation of Trace Elements in Soils; 4.1 Introduction; 4.2 Total Analysis; 4.2.1 Matrix Dissolution; 4.2.2 Instrumental Analysis Techniques; 4.2.3 Nondestructive Methods; 4.3 Fractionation of Trace Elements; 4.3.1 Single Extractions; 4.3.2 Sequential Extraction Procedures; 4.3.3 Fractionation Based on Particle Size

4.4 Species-Retaining and Species-Selective Leaching Techniques
 4.5 Equipment for Direct Speciation of Trace Elements in Soil; 4.6
 Conclusions; References; 5 Fractionation and Speciation of Trace
 Elements in Soil Solution; 5.1 Introduction; 5.2 Soil Solution Sampling,
 Storage and Filtration; 5.3 Particle Size Fractionation; 5.4 Liquid-Liquid
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 Derivatization Techniques to Create Volatile Species; 5.7
 Chromatographic Separation of Trace Element Species; 5.8 Capillary
 Electrophoresis; 5.9 Diffusive Gradients in Thin Films
 5.10 Ion-Selective Electrodes 5.11 Donnan Membrane Technique; 5.12
 Voltammetric Techniques; 5.13 Microelectrodes and Microsensors; 5.14
 Models for Predicting Metal Speciation in Soil Solution; 5.15
 Conclusions; References; SECTION 2 LONG-TERM ISSUES, IMPACTS AND
 PREDICTIVE MODELLING; 6 Trace Elements in Biosolids-Amended Soils;
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 Land Application and Trace Element Loading; 6.2.2 Trace Element
 Availability in Biosolids-Amended Soils - A Time Bomb?
 6.2.3 Plant Response to Trace Elements in Biosolids-Amended Soils - Is
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 References; 7 Fertilizer-Borne Trace Element Contaminants in Soils; 7.1
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 Contaminants

Sommario/riassunto

Written as an authoritative guide for analytical chemists, geochemists, soil scientists, agricultural chemists and environmental scientists at postgraduate level and beyond, Trace Metals in Soils provides an up-to-date, balanced and comprehensive review broken up into four sections, covering: basic chemistry and general principles; long-term behaviour of trace metals in soils; environmentally important trace metals, and remediation and management of metal contaminated soils.
