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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

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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.

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