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Collection; Soil in the Biomes; Foliage Collection from the Biomes; Chapter 9. Biogeochemical Behaviour of the Elements; Introduction; The Importance of Data Quality; Elements in Plants and their Relevance to Mineral Exploration; Chapter 10. Data Handling and Analysis; First Estimation of the Data; Computer Software Tools; Data Analysis; Map Plots of Data Distributions Unusual Concentrations of Selected Elements Chapter 11. Case Histories; Gold; Platinum Group Metals/Nickel/Copper; Nickel; Uranium; Kimberlites; Chapter 12. Exploration Geomicrobiology - The New Frontier; Introduction; Significance of Micro-Organisms as Biogeochemical Agents; Methods for Identifying Micro-Organisms and Microbial Processes; Molecular Procedures; Amplification of Target Genes from Extracted DNA or RNA; Case Studies; Future Technologies for Bio-Prospecting; Conclusions; Chapter 13. A Look to the Future; Introduction; Hyperspectral Imagery in Relation to Biogeochemistry Exploration Geomicrobiology Forensic Biogeochemistry; Plant Mineralogy; Chemical Analysis; Concluding Remarks; References; Botanical Index; Subject Index; Contents of CD

Sommario/riassunto

Significant refinements of biogeochemical methods applied to mineral exploration have been made during more than twenty years since the last major publication on this technique. This innovative, practical and comprehensive text is designed as a field handbook and an office reference volume. It outlines the historical development of biogeochemical methods applied to mineral exploration, and provides details of what, how, why and when to collect samples from all major climatic environments with examples from around the world. Recent commercialization of sophisticated analytical technology per
