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Metallomics bridges chemistry and the biological sciences from a global and quantitative systems approach. The biological context provides new insights into the functions of metals in biological cells. Metallomics is an integrated biometal science as it unifies different disciplines into a mainstream subject that can be taught to students of the biological and biomedical sciences. The book challenges the traditional view of relating biochemistry only to organic chemistry, and discusses the structure and function of metal ions in the context of their environment in organisms. This is an essential read for undergraduate and graduate students in the fields of biochemistry, cell biology, nutrition (trace element research), toxicology, pharmacology, ecology and the effects of metals on human health and disease