



Trace Elements in Human and Animal Nutrition

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Trace Elements in Human and Animal Nutrition, Fourth Edition, explores the physiological roles of trace elements in human and animal nutrition. It looks at the needs, tolerances, and interactions of trace elements with each other and with other nutrients and compounds, and it explores how deficient, toxic, or imbalanced intakes of such elements lead to biochemical and pathological changes. It also describes ways of diagnosing and addressing such aberrant intakes of trace elements, along with their principal sources.

Organized into 20 chapters, this volume begins with an overview of the nature of trace elements and their mode of action, including iron, copper, molybdenum, cobalt, nickel, manganese, zinc, cadmium, chromium, iodine, selenium, fluorine, mercury, vanadium, silicon, lead, and arsenic. It then discusses the presence of these elements in animal tissues and fluids, along with their metabolism, functions, and toxicity. It also considers other elements, such as aluminum, antimony, barium, boron, bromine, germanium, lithium, rubidium, silver, strontium, tin, titanium, and zirconium. The book concludes with an analysis of the interrelationships among soil, plants, and animals.

This book should be a valuable resource for students and chemists.

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