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2.2 Current regulation on chemicals 2.3 Guideline values; 2.4 Conclusions and recommendations; References; 3 Essential and beneficial trace elements; 3.1 Introduction; 3.2 Hazardous properties; 3.3 Sources; 3.4 Environmental pathways; 3.5 Effects on human receptors; 3.6 Risk reduction; References; 4 Toxic trace elements; 4.1 Introduction; 4.2 Hazardous properties; 4.3 Sources; 4.4 Environmental pathways; 4.5 Effects on human receptors; 4.6 Risk reduction; References; 5 Radioactivity and radioelements; 5.1 Introduction; 5.2 Hazardous properties; 5.3 Sources; 5.4 Environmental pathways 5.5 Bioaccessibility and bioavailability 5.6 Risk reduction; References; 6 Industrial chemicals; 6.1 Introduction; 6.2 Hazardous properties; 6.3 Sources; 6.4 Environmental pathways; 6.5 Human health; 6.6 Risk reduction and future trends; References; 7 Agricultural pesticides and chemical fertilisers; 7.1 Introduction; 7.2 Pesticides; 7.3 Fertilisers; 7.4 Risk reduction for pesticides and chemical fertilisers; References; 8 Pharmaceuticals and personal-care products; 8.1 Introduction; 8.2 Hazardous properties; 8.3 Anthropogenic sources; 8.4 Pathways and environmental fate 8.5 Physiological effects 8.6 Risk assessment, communication and reduction; 8.7 Future trends; References; 9 Naturally occurring oestrogens; 9.1 Introduction; 9.2 Hazardous properties; 9.3 Sources; 9.4 Environmental pathways; 9.5 Effects on humans; 9.6 Risk reduction; References; 10 Airborne particles; 10.1 Introduction; 10.2 Hazardous properties; 10.3 Sources; 10.4 Global pathways; 10.5 Health effects of inhaled particulate material; 10.6 Risk reduction and future trends; References; 11 Engineered nanomaterials; 11.1 Introduction; 11.2 Useful and hazardous properties; 11.3 Sources of NPs 11.4 Environmental pathways 11.5 Regulation and effects on human receptors; 11.6 Future trends and risk reduction; References; Conclusions: pollutants, risk and society; Index

## Sommario/riassunto

Pollutants, Human Health and the Environment is a comprehensive, up-to-date overview of environmental pollutants that are of current concern to human health. Clearly structured throughout, the main body of the book is divided by pollutant type with a chapter devoted to each group of pollutants. Each chapter follows a similar format to facilitate comparison and discussion. For each pollutant, the authors describe the sources, pathways, environmental fate and sinks as well as known toxicological effects. Importantly, the second chapter on heavy metals and other inorganic substances