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	Conclusions; Acknowledgements; References 4 Hydrogeology of Bottled Waters4.1 Introduction; 4.2 Understanding underground water - Hydrogeology; 4.2.1 Underground water - a key part of the water cycle; 4.2.2 Recharge to underground water; 4.2.3 Groundwater occurrence; 4.2.4 Water levels and groundwater flow; 4.2.5 Storage of water in aquifers; 4.2.6 Wells, springs and boreholes; 4.2.7 Flow to wells and boreholes; 4.3 Groundwater quality; 4.3.1 Hydrochemistry - the history of a groundwater; 4.3.2 Terms, definitions and concepts; 4.3.3 Hardness and alkalinity; 4.3.4 Evolution of groundwaters; 4.3.5 Human influences on groundwater 4.3.6 Hydrochemical classification of bottled waters4.4 Groundwater source development; 4.4.1 Stages of development; 4.4.2 Resource evaluation; 4.4.3 Source definition; 4.4.4 Source construction; 4.4.5 Variation of aquifer properties with depth; 4.5 Management of groundwater sources; 4.5.1 Record keeping; 4.5.2 Monitoring, maintenance and rehabilitation; 4.5.3 Sampling and water quality analysis; 4.5.4 Monitoring borehole yield; 4.5.5 Changes in water quality; 4.5.6 Control of resource exploitation; 4.6 Protecting groundwater quality; 4.6.1 Changing policies and perspectives 4.6.2 Source protection zones4.6.3 Hazard identification and mapping; 4.6.4 Groundwater vulnerability and natural attenuation; 4.6.5 Wellhead protection; 4.6.6 Risk assessment and catchment management; References; 5 Water Treatments; 5.1 Why and when water must be treated; 5.1.1 Compliance with local regulations; 5.1.2 Quality reasons; 5.1.3 Marketing reasons; 5.2 Water treatment objectives; 5.2.1 Removal of undissolved elements; 5.2.3 Removal of undesirable and/or unstable chemical elements; 5.2.4 Addition of 'valuable' elements 5.3 Water treatment processes
Sommario/riassunto	The fully revised third edition of this unique and comprehensive overview of the science and technology of the bottled waters industry contains brand new chapters which address these new developments. As well as an updated introductory chapter reviewing the market, the degree to which the global legislative and regulatory picture has changed is examined, and new and increasingly-used quality standards are assessed. The book provides a definitive source of reference for all those involved in bottled water production: beverage technologists, packaging technologists, analytical chemists, microbio