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indigenous knowledge in south-west Ethiopia 4 Sustainable management of head water resources: Interface-drainage analysis of a water divide; Part II: Environmental impact assessment in the head water regions of India and Africa; 5 Environmental changes and status of water resources in the Kumaon Himalayas; 6 Factors regulating fresh water quality in the Himalayan river system; 7 Modern lake-level rise and accelerated fluvio-lacustrine sedimentation of Lake Abaya, south Ethiopia - A case study from the Bilate River delta, northern lake area 8 Land use changes and hydrological responses in the Lake Nakuru basin 9 Hazard risk assessment in Mount Kenya headwaters; 10 An analysis of accessibility to rural domestic water supply: A case study of Kakamega district, Kenya; Part III: Climate change and catchment modelling: Studies from the head water regions of Kenya; 11 Methodology for evaluating the regional impact of climate change on water resources; 12 Analysis of surface runoff from head water catchments in upper Ewaso Ng'iro North drainage basin in Kenya 13 Digital image analysis and GIS database design of Lake Bogoria area, Kenya: Three-dimensional modelling for slope evaluation 14 A catchment model of runoff and sediment yield for semi-arid areas; Conclusion: Sustainable development and headwaters in India and Africa: A summing up; Appendix; Acronyms; Contributors; Index

Sommario/riassunto

Head waters are the source of freshwater resources, the margins of drainage basins, and the first and zero order basins that surround every catchment. The challenge is to define appropriate, self-sustainable, management strategies and structures for these lands which meet the needs of the head water habitat, including its human inhabitants, and the needs of habitats downstream. The contributors to this book strive to anticipate emerging and future problems; to discover integrated solutions to the problems already caused by land degradation, natural hazards and development processes; and to help
