

## Contents

Preface	vii
MILLS, C. F. Geochemical aspects of the aetiology of trace element related diseases	1
PLANT, J. A., BALDOCK, J. W. & SMITH, B. The role of geochemistry in environmental and epidemiological studies in developing countries: a review	7
FORDYCE, F. M., MASARA, D. & APPLETON, J. D. Stream sediment, soil and forage chemistry as indicators of cattle mineral status in northeast Zimbabwe	23
JUMBA, I. O., SUTTLE, N. F., HUNTER, E. A. & WANDIGA, S. O. Effects of botanical composition, soil origin and composition on mineral concentrations in dry season pastures in western Kenya	39
MASKALL, J. & THORNTON, I. The distribution of trace and major elements in Kenyan soil profiles and implications for wildlife nutrition	47
BOWELL, R. J., WARREN, A. & REDMOND, I. Formation of cave salts and utilization by elephants in the Mount Elgon Region, Kenya	63
SELINUS, O. FRANK, A. & GALGAN, V. Biogeochemistry and metal biology	81
EDMUNDS, W. M. & SMEDLEY, P. L. Groundwater geochemistry and health: an overview	91
BOWELL, R. J., McELDOWNEY, S., WARREN, A., MATHEW, B. & BWANKUZO, M. Biogeochemical factors affecting groundwater quality in central Tanzania	107
DISSANAYAKE, C. B. Water quality and dental health in the Dry Zone of Sri Lanka	131
SMITH, B., BREWARD, N., CRAWFORD, M. B., GALIMAKA, D., MUSHIRI, S. M. & REEDER, S. The environmental geochemistry of aluminium in tropical terrains and its implications to health	141
THORNTON, I. Sources and pathways of arsenic in the geochemical environment: health implications	153
SMEDLEY, P. L., EDMUNDS, W. M. & PELIG-BA, K. B. Mobility of arsenic in groundwater in the Obuasi gold-mining area of Ghana: some implications for human health	163
HELIOS RYBICKA, E. Environmental impact of mining and smelting industries in Poland	183
NICHOLSON, K. Lacustrine sediment geochemistry as a tool in retrospective environmental impact assessment of mining and urban development in tropical environments: examples from Papua New Guinea	195
FUGE, R. Geochemistry of iodine in relation to iodine deficiency diseases	201
DISSANAYAKE, C. B. & CHANDRAJITH, R. L. R. Iodine in the environment and endemic goitre in Sri Lanka	213
STEWART, A. G. & PHAROAH, P. O. D. Clinical and epidemiological correlates of iodine deficiency disorders	223
NAIR, M. G., MAXWELL, S. M. & BRABIN, B. J. The protective role of trace elements in preventing aflatoxin induced damage: a review	231
NICHOLSON, R. A., ROBERTS, P. D. & BAXTER, P. J. Preliminary studies of acid and gas contamination at Poas volcano, Costa Rica	239
OLIVER, M. A. Kriging: a method of estimation for environmental and rare disease data	245

HARVEY, R., POWELL, J. J. & THOMPSON, R. P. H. A review of the geochemical factors linked to Podocorniosis	255
Index	261