Contents

PETTERSON, M. G., MARKER, B. R., MCEVOY, F., STEPHENSON, M. & FALVEY, D. A. The need and context for sustainable mineral development 5
HOBBS, J. C. A. Enhancing the contribution of mining to sustainable development 9
RICHARDS, J. P. The role of minerals in sustainable human development 25
HARRISON, D. J., FIDGETT, S., SCOTT, P. W., MACFARLANE, M., MITCHELL, P., EYRE, J. M. & WEEKS, J. M. Sustainable river mining of aggregates in developing countries 35
SCOTT, P. W., EYRE, J. M., HARRISON, D. J. & BLOODWORTH, A. J. Markets for industrial mineral products from mining waste 47
ESHUN, P. A. Sustainable small-scale gold mining in Ghana: setting and strategies for sustainability 61
NYAMBE, I. A. & KAWAMYA, V. M. Approaches to sustainable minerals development in Zambia 73
DAVIES, T. C. & OSANO, O. Sustainable mineral development: case study from Kenya 87
D’SOUZA, K. P. C. J. Artisanal and small-scale mining in Africa: the poor relation 95
MITCHELL, C. J. FarmLime: low-cost lime for small-scale farming 121
AKHTAR, A. Mineral resources and their economic significance in national development: Bangladesh perspective 127
HUSAIN, V. Obstacles in the sustainable development of artisanal and small-scale mines in Pakistan and remedial measures 135
MISHRA, P. P. Mining and environmental problems in the Ib valley coalfield of Orissa, India 141
TOLIA, D. H. & PETTERSON, M. G. The Gold Ridge Mine, Guadalcanal, Solomon Islands’ first gold mine: a case study in stakeholder consultation 149
CARVALHO, J. F. & LISBOA, J. V. Construction raw materials in Timor Leste and sustainable development 161
STEPHENSON, M. H. & PENN, I. E. Capacity building of developing country public sector institutions in the natural resource sector 185
| CONTENTS |
|-------------------------------|------|
| SHIELDS, D. J. & SOLAR, S. V. Sustainable development and minerals: measuring mining’s contribution to society | 195 |
| O’REGAN, B. & MOLES, R. System dynamics modelling: a more effective tool for assessing the impact of sustainable development policies on the mining industry | 213 |
| VAN DER MEULEN, M. J. Sustainable mineral development: possibilities and pitfalls illustrated by the rise and fall of Dutch mineral planning guidance | 225 |
| WHITMORE, A. The emperor’s new clothes: sustainable mining? | 233 |
| Index | 243 |