

Contents

Contributors	6		
Introduction	7		
1 Copper–Arsenic Ores and Bronze Age Mining and Metallurgy with Special Reference to the British Isles <i>R.A. Ixer and R.A.D. Patrick</i>	9	10 Early Metallurgy in Bulgaria <i>N.H. Gale, Z. Stos-Gale, A. Raduncheva, I. Panayotov, I. Ivanov, P. Lilov and T. Todorov</i>	122
2 Early Mining Research in Britain: The Developments of the Last Ten Years <i>S. Timberlake</i>	21	11 Advent of the Bronze Age in the Indian Subcontinent <i>T.M. Babu</i>	174
3 Geochemical Monitoring of Heavy Metal Pollution and Prehistoric Mining: Evidence from Copa Hill, Cwmystwyth, and Mount Gabriel, County Cork <i>T.M. Mighall</i>	43	12 Analyses of Metalliferous Residues, Crucible Fragments, Experimental Smelts, and Ores from Kestel Tin Mine and the Tin Processing Site of Göltepe, Turkey <i>K.A. Yener, A. Adriaens, B. Earl and H. Özbal</i>	181
4 Hafted Stone Mining Hammer from Chuquicamata, Chile <i>B.R. Craddock, C.R. Cartwright, P.T. Craddock and W. B. Wray</i>	52	13 Early Extraction of Silver from Complex Polymetallic Ores <i>V. Kassianidou</i>	198
5 Bronze Age Smelting Site in the Mitterberg Mining Area in Austria <i>H. Herdits</i>	69	14 Crucibles as Reaction Vessels in Ancient Metallurgy <i>Th. Rehren</i>	207
6 Spatial Organisation of Mining and Smelting at Feinan, Jordan: Mining Archaeology Beyond the History of Technology <i>G. Weisgerber</i>	76	15 Production of Brass in Antiquity by Direct Reduction <i>P.T. Craddock and K. Eckstein</i>	216
7 Developments in Copper Metallurgy During the Fourth and Third Millennia BC at Feinan, Jordan <i>A. Hauptmann</i>	90	16 Cast Iron, Fined Iron, Crucible Steel: Liquid Iron in the Ancient World <i>P.T. Craddock</i>	231
8 Indigenous Copper Mining and Smelting in Pre-colonial Southern Africa <i>D. Miller</i>	101	17 Early Islamic Crucible Steel Production at Merv, Turkmenistan <i>A.M. Feuerbach, D.R. Griffiths and J.F. Merkel</i>	258
9 Early Copper Technology in Xinjiang, China: The Evidence So Far <i>Mei Jianjun and Li Yanxiang</i>	111	18 Traditional Zinc Production in Modern China: Survival and Evolution <i>P.T. Craddock and Zhou Weirong</i>	267
		Index	293