

BOOK REVIEW

Broken Hill Mines—1968, edited by M. Radmanovich and J. T. Woodcock, published by The Australian Institute of Mining and Metallurgy, Melbourne, 613 pages. Price \$A15.

This volume, containing some 65 technical papers, was produced for the 1968 annual conference of the Australasian Institute held at Broken Hill to mark the 75th Anniversary of that Institute, founded at Broken Hill in 1893. That conference also coincided with the 85th Anniversary of the discovery of the Broken Hill mining field. This closely reflects the position in this country, where the Witwatersrand gold fields were discovered in 1886, and our South African Institute of Mining and Metallurgy will in March, 1969 be celebrating the 75th Anniversary of the founding of the forerunners of our Institute.

There is a comprehensive report of the geology of the Broken Hill area and the mineralogy of the ore body, and there are reports on the mining methods and the metallurgical procedures which have been developed over 85 years of operation of one of the great mining fields of the world. The value of most of the papers is enhanced by a large number of illustrations and photographs.

An early section covers the academic and practical aspects of rock mechanics, prospecting, and exploration techniques are described in some detail. A third of the volume is devoted to mining, with papers on 26 aspects. The breadth of the coverage gives an indication of much specialized development, research, and consequent maturity in all departments.

The detailed treatment of metallurgical aspects such as sizings of individual mineral particles throughout the milling stages and the development of an on-stream analysis system for lead will commend this volume to the specialist.

The committee responsible for the production of this volume, which brings together much information previously only to be found after searching through numerous publications, are to be congratulated on a well produced comprehensive review of many aspects of the mining and metallurgical fields.

H.B.