



The Mineral Industry Volume 23 (Paperback)

By Books Group

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 Excerpt: .on at 700-800 C. in a reducing atmosphere of hydrocarbon rich in H with a limited access of air; with a hydrocarbon containing little H, steam is admitted to the furnace. Supposing ethylene to be the hydrocarbon, the reaction taking place may be expressed by $\text{MetS} + \text{CH}_2 + 2\text{O} = \text{MetO} + \text{CO}_2 + \text{H}_2\text{O} + \text{S}$; with a lack of C there is formed SO_2 as shown by $\text{MetS} + \text{CH}_2 + 3\text{O} = \text{MetO} + \text{CO}_2 + \text{H}_2\text{O} + \text{SO}_2$; with an excess H, S is formed $\text{MetS} + 2\text{CH}_2 + 3\text{O} = \text{MetO} + 2\text{CO}_2 + \text{H}_2\text{O} + \text{H}_2\text{S}$. It is therefore essential that the amounts of reagents be correctly proportioned. In laboratory experiments the S content of pyrite was reduced from 48 to 5 per cent, at 800 C. in an atmosphere of producer gas charged with some air and steam....



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