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The Action of Acid Mine Water on the Insulation of Election Conductors: A Preliminary Report (Classic Reprint)

By H H Clark

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Action of Acid Mine Water on the Insulation of Election Conductors: A Preliminary Report Moisture and acid are foes of electric insulation and are especially active when combined. In mining work it frequently happens that an electric conductor is exposed to the action of most air and acid water. This condition, although common to nearly all conductors installed in wet parts of a mine, is especially noticeable in shafts and bore holes through which signal, telephone, or power cables are led under ground. Large quantities of moisture are often present in such places, and in the shafts of coal mines that have several levels the moisture below the first level is sometimes very acidulous. Not all conductors used in mines are insulated, but some of them are, and whenever multiple-conductor cables are used they must, of course, be insulated. The use of such cables in shafts, bore holes, and even under ground will increase as the use of alternating current increases. At present the practice of consolidating mine power plants, or purchasing power from...



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