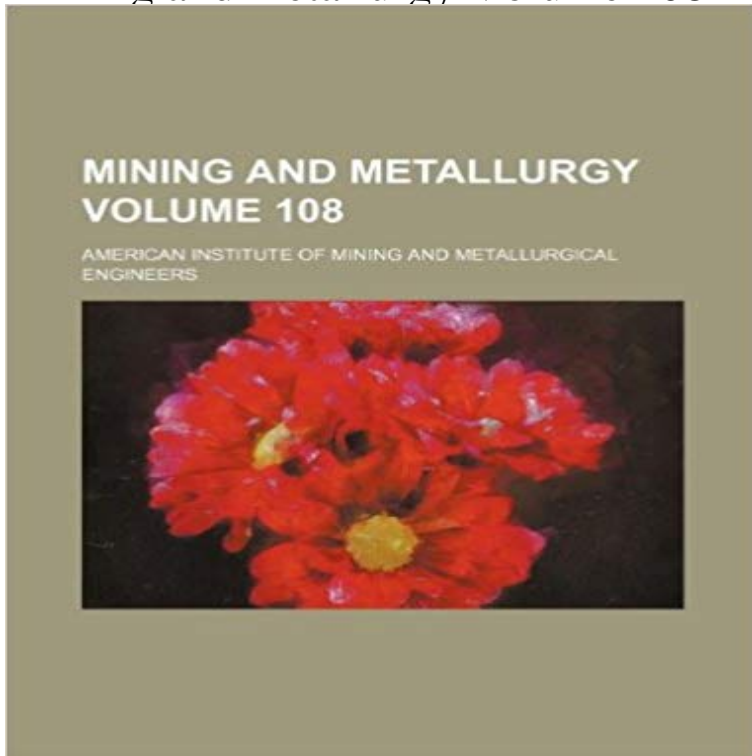


Mining and metallurgy Volume 108



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: ...steel, some plates have been designed with rectangular slots about J in. or % in. wide on the inside, tapering to % or % in. on the outside, the slots being 1J in. long and set diagonally. Elevator buckets of the same thickness as malleable iron buckets are now made of manganese steel, the latter giving six times the service of the malleable iron. The application of manganese steel to steam-shovel dippers was one of the first problems attacked by the manufacturers of this material in this country, the wear in this service being particularly severe. A dipper known as the Missabe type is made entirely of manganese steel. Its body consists of but two castings, the front and back halves, which give maximum stiffness and rigidity. This design permits the construction of a large dipper with only a few rivets. The bail brackets are set at an angle conforming to the line of pull on the bail. They are butted against shoulders or offsets which are formed integrally with the sides of the front castings and are riveted to the front half of the dipper, the joints between the front and back halves being placed at the rear of the brackets, thus throwing all the digging strains on the front casting, and relieving the Fig. 7.--Five Cubic Yard Missabb Type Manganese-steel Dipper With Vanderhoep Front. rivets at the joints from shearing stresses. The teeth, which are easily renewable, are of cast manganese steel. Dippers of the Missabe type of 10-cu. yd. capacity, which are believed to be the largest manganese-steel dippers ever made, were used on dredges working in the Culebra Cut, Panama Canal. The weight of the empty dipper is 37,600 Ib. and its overall dimensions are 9 by 9 by 10% ft. The lips are 3M in-thick and the fronts are

the same thickness underneath the teeth.
Be...

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