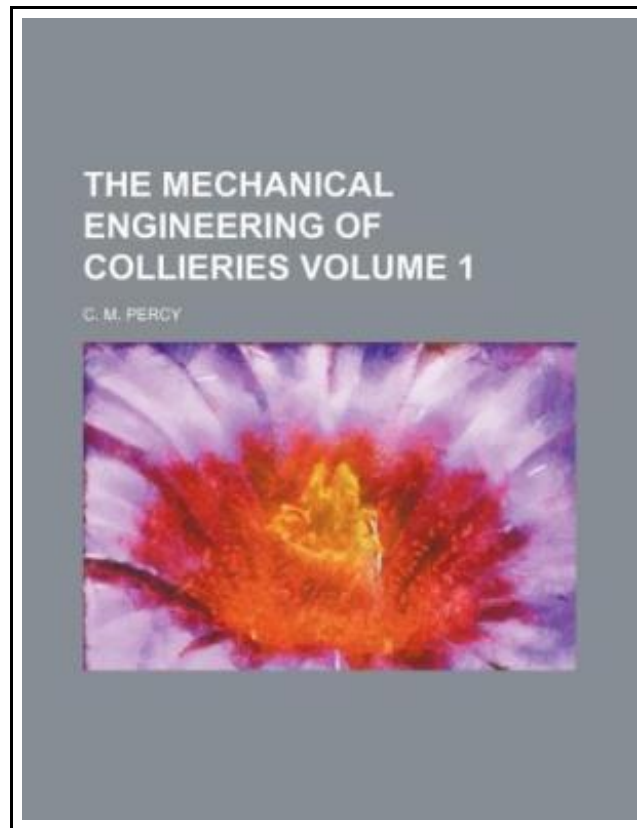


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(Lorena White)

THE MECHANICAL ENGINEERING OF COLLIERIES VOLUME 1



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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. 1892 Excerpt: .work. So long ago as 1872 experiments were made in Liverpool with a very large number of marine engines (see Sir Frederick Bramwell s paper and Sir William Siemens presidential address in the Transactions of Mechanical Engineers for 1872), and it was shown that the average consumption of coal did not exceed 2 lb. per indicated horse-power per hour. Marine engines have no advantages which engines driving mechanical ventilators may not possess, and surely what was accomplished with marine engines many years ago ought to be possible with engines for mechanical ventilators now. And with engines working so economically how would Mr. Atkinson s figures come out? The mechanical ventilator would excel the furnace even in point of economy at any ordinary depth, whatever the upcast shaft temperature. There is nothing unreasonable in expecting a horse-power from 2 lb. of coal per hour. Indeed, Mr. E. A. Cowper, ex-president of the Institution of Mechanical Engineers, has done this with 1 lb. of coal. The very best engines, either compound or otherwise, can be applied, and almost a perfect vacuum should be obtainable, because the work is regular and continuous, and the engine can work at any speed by the use of gearing, or can be applied direct. None of the objections peculiar to winding engines apply here. We have referred elsewhere in this volume to steam boilers made by Messrs. Galloway, which will and do evaporate 8,000 lb. of water per hour with 1 lb. of coal...



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