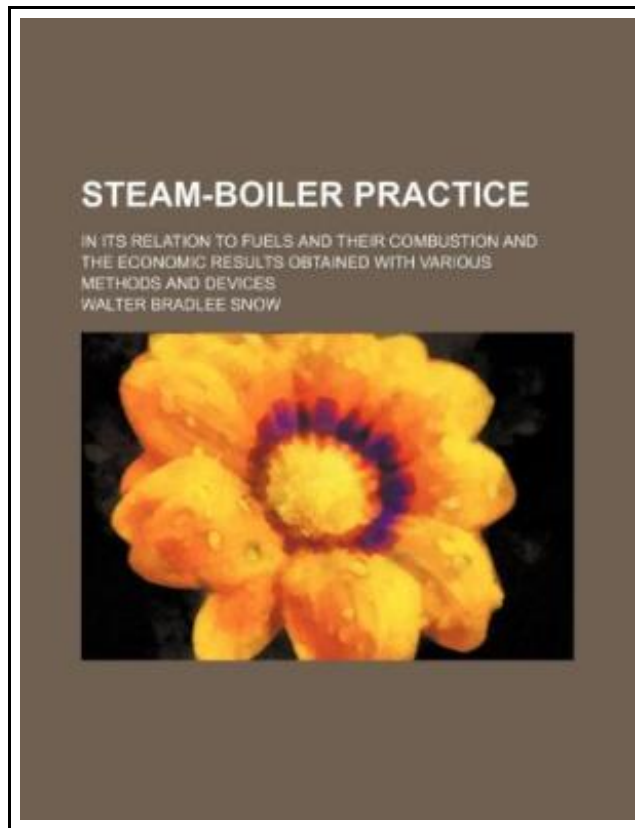


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1899 Excerpt: .case if an economizer is to show efficient results. The ideal arrangement, however, consists of a combination of economizer and abstractor, whereby the air-supply to the furnace may be heated as well as the feed-water for the boiler, and all the heat practicable thus abstracted from the flue-gases. For such results chimneydraft is ordinarily inadequate and mechanical means must be resorted to to overcome the increased resistance. Doubtless the most comprehensive test ever conducted upon an apparatus of this character was that undertaken by Hoadley, in the interest of a number of mill-owners, and intended to determine the efficiency of the Marland apparatus for heating the air-supply. The original apparatus was applied to a single horizontal return tubular boiler, 60 inches in diameter, with 65 tubes 3 inches in outside diameter, and 20 feet long. This boiler was of the regular type in use in the Pacific Mills, Lawrence, Mass., where the tests were made, except that upon its top were placed two abstractors, one upon either side, 3 feet apart, extending the entire length of the boiler. Each abstractor contained 120 lap-welded tubes, 2 inches in outside diameter and 20 feet long, inclosed in a brick setting. Surrounding each pipe was a 3-inch tube of thin iron. By proper arrangement of the heads into which the 2-inch pipes were expanded, in connection with the uptake, a passage was provided for the flue-gases through these pipes and thence to the blower which produced the requisite draft....



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