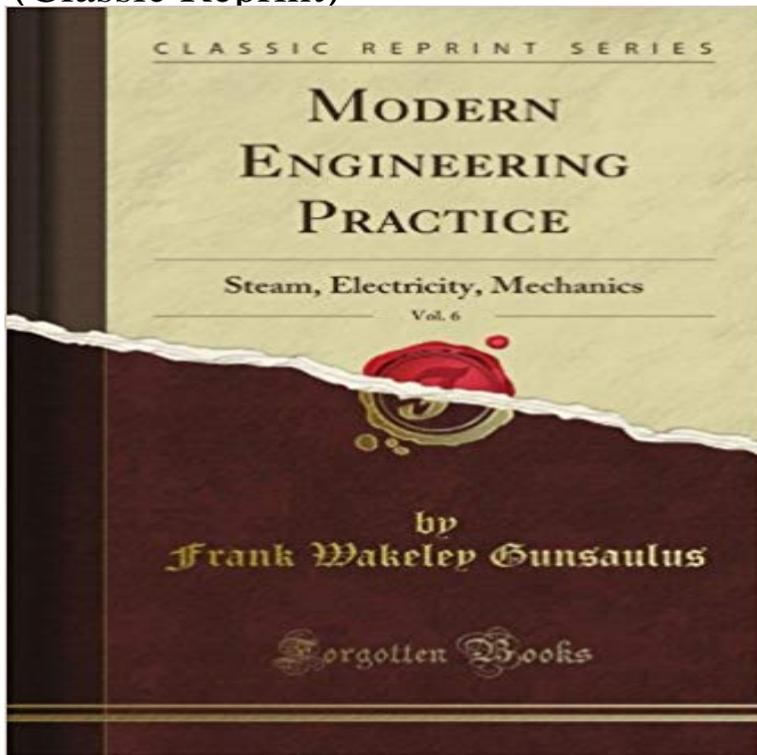


Modern Engineering Practice: Steam, Electricity, Mechanics, Vol. 6 (Classic Reprint)



The marine boilers now used may be divided into three distinct classes which in turn may be subdivided. These general classes are, 1. The rectangular or box boiler. 2. The cylindrical or drum boiler. 3. The water-tube boiler. THE RECTANGULAR BOILER. The Rectangular Boiler shown in Fig. 1 is made square or box-shaped; hence the sides are flat. This form was one of the earliest used; at present, however, its use is restricted to low pressure, that is, under 30 pounds per square inch. The reason why this boiler cannot be used for high pressure is that the flat plates tend to bulge outward when under high pressure. In order to prevent the plates from bulging they must be stayed with numerous longitudinal and vertical stay rods. Box boilers were generally made with an internal uptake as shown in Fig. 1. This construction permits of a larger steam space and reduces loss of heat by radiation. It is, however, expensive in first cost and repairs; also the plates of the uptake waste rapidly, especially near the water line, because the heat is not transmitted as readily by steam as by water. In case the uptake is made separate and does not form a part of the boiler, this objection is avoided. The tubes of the rectangular boiler are usually horizontal or nearly so. When set inclined or with a rake, as it is called, there is more room for manholes at the smoke-box end. The extremities of the tubes at the combustion chamber end are near the furnace but are higher at the smoke-box end. (Typographical errors above are due to OCR software and do not occur in the book.) About the Publisher Forgotten Books is a publisher of historical writings, such as: Philosophy, Classics, Science, Religion, History, Folklore and Mythology. Forgotten Books Classic Reprint Series utilizes the latest technology to regenerate facsimiles of historically important writings. Careful attention has been made to accurately

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