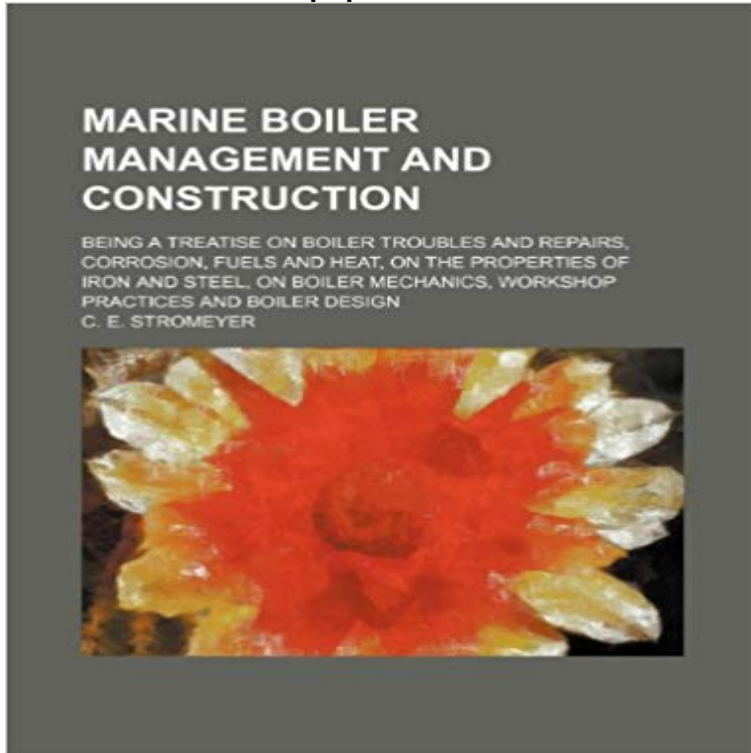


Marine boiler management and construction; being a treatise on boiler troubles and repairs, corrosion, fuels and heat, on the properties of iron and ... workshop practices and boiler design



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. 1907 Excerpt: ...reduced. That important changes are slowly occurring in steel is proved by the fact that ordinary test samples which have been successfully bent to a small radius crack spontaneously some time afterwards; that armour plates, after having been fired at, emit strange sounds for a long period, and that the elastic limit of steel test pieces which have been stretched a few per cent. slowly grows higher and higher when at rest. Time can hardly be called a treatment, but the mystery attaching to its effects should be a sufficient excuse for most carefully investigating all such cases as may possibly have been produced by it. Influence of Punching.--One treatment which produces injurious effects in steel is punching holes into the plates. The experiments on the subject are too numerous to be mentioned here, but many of them will be found in the chapter on Mechanics, under Riveted Joints, p. 225. The thickness of the plate, the diameters of the punch and die, as well as the hardness and chemical composition of the plate, affect the pliability of such samples. It has been found that rimming out m-of the holes removes all bad effects; but if it is true, as stated by Mr. Beck-Gerhard (Gorni J., 1884, p. 347), that the curves of stress slowly extend at least 5 ins. away from the hole, then punched plates ought to be annealed or rimmed at once. This experiment was as follows: A $\frac{1}{2}$ -in. plate was polished on one side and punched (in a cold atmosphere). Spiral curves then showed themselves, which were first washed with aqua regia. The piece was then planed into several strips and each tested, when the spiral curves reappeared and were perceptible to the touch. This may explain the curious

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curved markings near punched holes and sheared edges. In every one of these l...

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