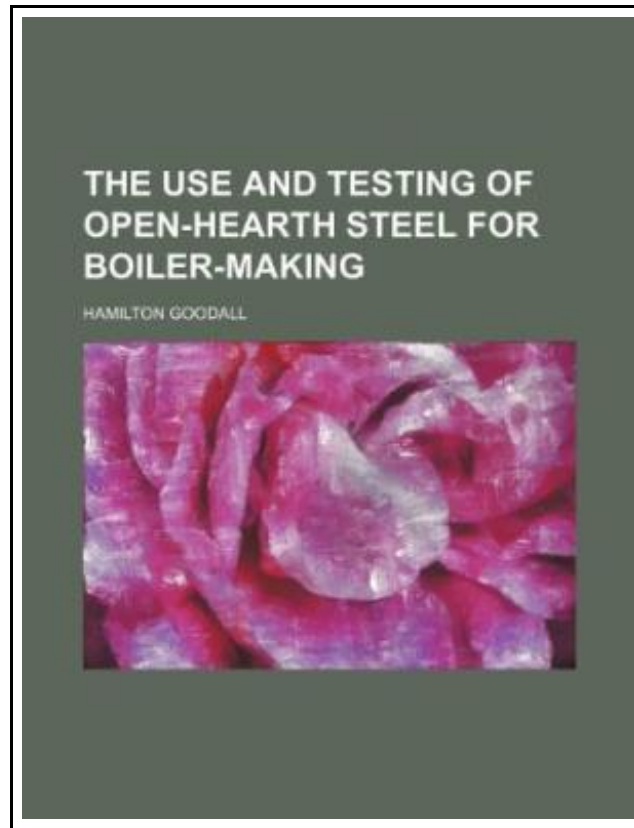


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1888 Excerpt: .Ellis, bending-test? whether he meant a quenched bend, the steel being heated, and thrown into the water and then bent. Mr. B. Baker said th-t Mr. Reynolds had raised the question Mr. B-ker, whether the previous compression on steel affected its strength Mr. B-ker. It did not affect its tensile-strength, but it considerably lowered the limit of elasticity. Nothing showed the influence of previous strains on steel better than experiments on long columns. A few years ago he investigated this question, and arrived at some interesting practical results. The resistance to flexure of a solid mild steel column 30 diameters in length varied according to previous treatment as followed: --Tons per squ-re inch. Annealed = 14-5 Previously stretched 10 per cent. = 12 6 compressed 8 . = 22-1 9 = 28-9 Straightened cold =118 These results were very suggestive in many respects which he could not then refer to. Mr. Eeynolds had also noticed the condition of a boiler-plate which was bent cold. It had always been a matter of surprise to him how any one could imagine that a boiler-plate bent cold and not subsequently annealed could have a uniform tension on it under steam-pressure. This could be proved theoretically. If h, l (Fig. 9) represented the thickness of a plate bent cold beyond the elastic limit, the reactions of the different fibres would be indicated by the curved line a, b, c, d, because a sudden change of length occurred at the yielding...



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