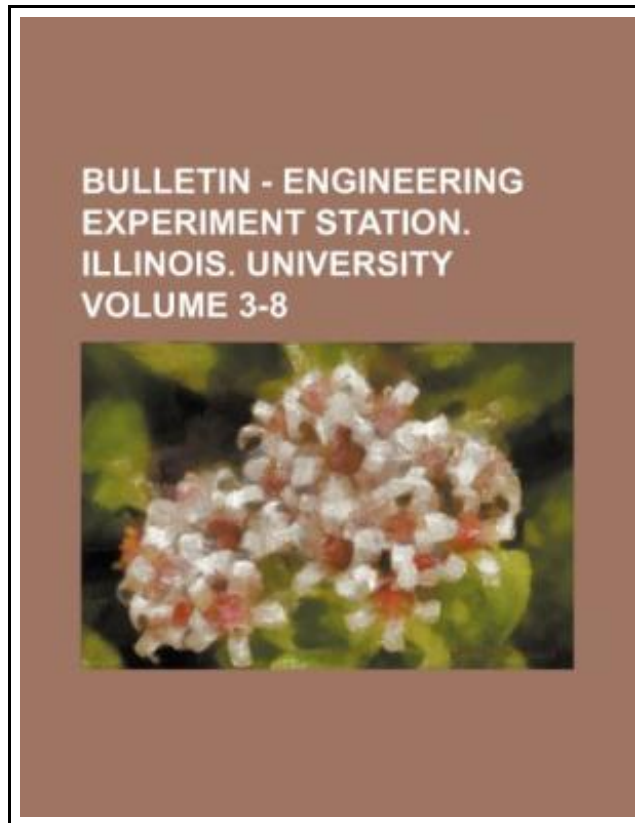


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1906 Excerpt: . brief account of previous experiments and of the empirical and theoretical formulae which have been proposed. Historical The first and until very recently the only systematic experiments on the collapse of tubes were those of Sir William Fairbairn made nearly fifty years ago1. Pairbairn s work was done at the suggestion and with the aid of the Royal Society and of the British Association for the Advancement of Science. The common steam pressure in that day was 50 pounds per square inch or less, and so the highest pressure thought necessary by Pairbairn was less than 500 pounds. The tubes were composed of a single thin iron plate bent to the required form upon a mandril and riveted and also brazed to prevent leakage into the interior. The ends were closed by cast-iron disks or plugs, and the tube was placed in a large cast-iron cylinder and there subjected to hydraulic pressure. Fig. 1 is reproduced from Pairbairn s original paper and shows his arrangement. The cast-iron cylinder was 8 feet long, 28 inches in diameter and the walls were 2 inches thick. The cylinder was placed in a vertical position and the tube was William Fairbairn, On the Resistance of Tubes to Collapse. Philosophical Transactions of the Royal Society of London for 1858, pp. 38M13; also in Pairbairn s Useful Information for Engineers. Second Series. London, 1867.; Fig. 1 Sir Wm. Faihbaikn s Apparatus For Testing Tubes, Reproduced From Phil. Trans, For 1858 supported...

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