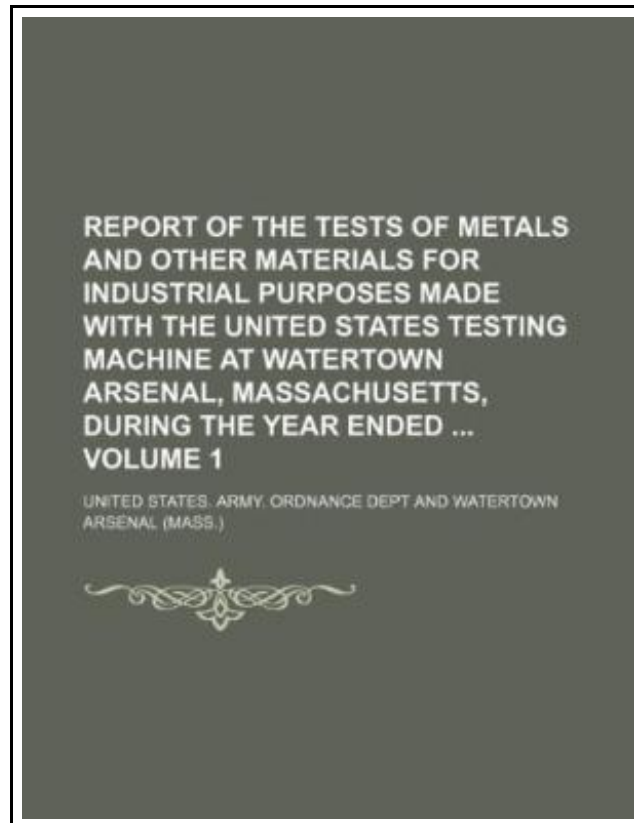


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 Excerpt: . plate, 10 x . 735. 1 steel rivets, hand-driven. Punched holes: Punch, 1-ft diameter; die, 1/2 diameter. Square inches. Gross sectional area of upper plate 7.39 Net sectional area of upper plate 3.74 Bearing surface of rivets 7.30 Shearing area of rivets 8.86 Fractured upper plate across row of rivet holes. Fractures granular, radiating from rivet holes; four sections broke simultaneously; one end section broke last, at 170,000 pounds load; sharp snapping sound heard, the load falling slightly at the same time. Maximum loads on joint. Pounds per sq. inch. Tensile strain on gross section of upper plate 24,050 Tensile strain on net section of upper plate 47,510 Compressive strain on bearing surface of rivets 24,340 Shearing strain on rivets 20,060 1-9m jo pan paB9Bd jo stjou.n Hi. 8 6 9 6 0 6 I I J W f W z!)-.JB3(jo jsqmnx s s e l 5 C O. t-i n ci T3-fl (c)--e e-r = zrt.Sc er(cc Ej.1).1 3atqsin8n!Jtiji Tot trr -r P. 9--ror zor err Mnpi aaitjsin3nijRjd Effj--j jo j0qinn Tensile tests of iron and steel grooved specimens. To determine the effect upon the tensile strength of the metal, of grooves, punched and drilled, varying in diameter, also varying the width of the specimens at the bottom of the grooves. FORM OF SPECIMENS. Each specimen reinforced by the same width of metal, A--l. 10, from the bottom of the groove to the side of the plate. Diameters of drilled grooves;...

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