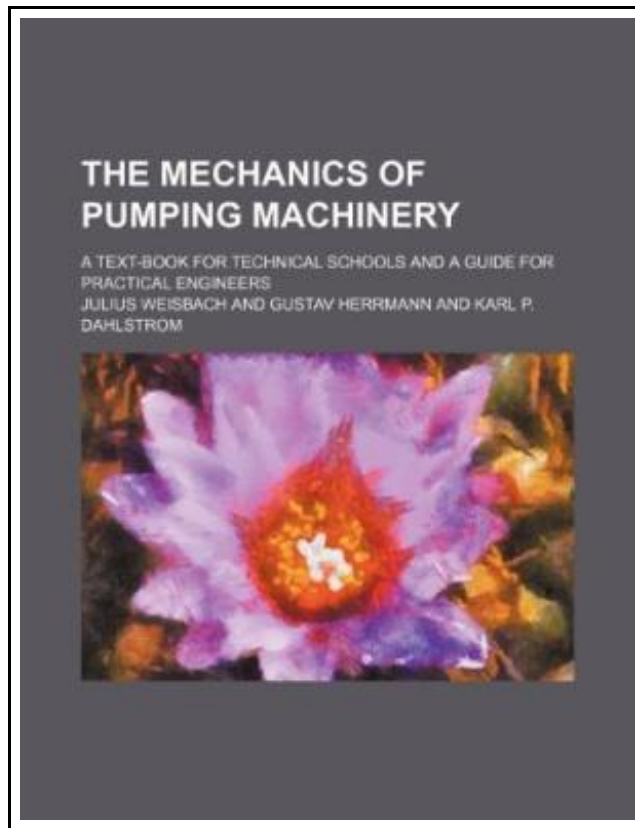


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(Prof. Demond McClure)


THE MECHANICS OF PUMPING MACHINERY; A TEXT-BOOK FOR TECHNICAL SCHOOLS AND A GUIDE FOR PRACTICAL ENGINEERS (PAPERBACK)



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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. 1897 Excerpt: .In Fig. 103 is shown a section of a steam fire engine built by Eggestorff of Hanover. The vertical boiler A has a cylindrical fire box B, and contains 199 tubes of 35 mm. 1 1/2 ins. diameter, the total surface exposed to the fire or gases being about 28 sq. metres 300 sq. ft. The steam pump D is Fig. 103. located on the top of the cylindrical suction air chamber C, from which the water is sucked through the pipe c and forced into the delivery air chamber W. Steam is furnished to the engine through the pipe a, and exhausted through d into the smoke stack S with a view to increasing the draught. The pump is double acting, and has four valves V, the arrangement of which is shown in the section (Fig. 104). The steam piston is directly connected to the pump plunger by 1 Mitheil. des Hannoc. Gewerbe-Vereins, 1884, and Riithmann's Allgem. Maschinenlehre, vol. iv. means of the piston rod, which, by the aid of a slider crank F drives an auxiliary shaft provided with a fly wheel E in the manner explained below in the article on steam pumps. The diameter of the steam piston is 0.215 m. 8.46 ins., that of the pump plunger 0.178 m. 7 ins., and the stroke of both is 0.228 m. 9 ins.; the steam pressure is about 7 kg. per sq. cm. 100 pounds above the atmosphere. At a maximum speed of 161 revolutions of the fly wheel,...

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