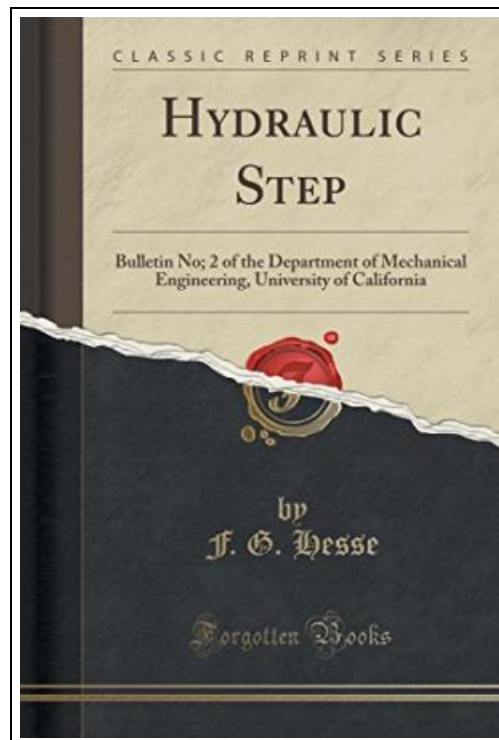


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Hydraulic Step: Bulletin No; 2 of the Department of Mechanical Engineering, University of California The machinery which was used in connection with a certain pumping system for irrigation contained a vertical shaft which supported a heavy load and rotated in water at a high velocity. The whole plant was required to be of such construction as to dispense with the necessity of supervision. Under these conditions the footstep of the shaft claimed careful consideration. Lubrication, except with water, was out of the question. The use of lignum vitae was also of doubtful utility on account of the grit, of which the water carried considerable quantities. Girard s method of forcing water between the surfaces of contact by means of a force-pump was too complicated and lacked permanency. In this dilemma it occurred to me that a permanent water pressure might be established through the agency of a forced vortex, created by the rotation of the shaft itself, which, in acting against a disc attached to the shaft, could be made to balance a portion of or the whole load. Fig. 1 is a sectional view of the footstep, through the axis of shaft, S. It represents a cylindrical vessel, composed of a number of identical compartments m, m, etc. (the drawing shows three). The concentric shaft S, passes freely through these and rests on an ordinary footstep, which is attached to the bottom of the lowest compartment. The shaft carries for each division a disc of a diameter just sufficient to clear the surrounding face of the cylinder, and midway between top and bottom. The upper part of each disc is provided with radial ribs...



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