



The Analysis and Design of Indicator Reducing Motions: Thesis for the Degree of Bachelor of Science in Mechanical Engineering; College of Engineering, University of Illinois, 1912 (Classic Reprint) (Paperback)

By Samuel Elza Gregg

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Analysis and Design of Indicator Reducing Motions: Thesis for the Degree of Bachelor of Science in Mechanical Engineering; College of Engineering, University of Illinois, 1912 The steam engine indicator furnishes us a means of determining the amount of work done in the cylinder of an engine by the steam. There are many forms of indicators, two of which, the Crosby and the Thompson, are shown on the following page. The principle upon which each works, however, is the same in all cases. When the indicator is connected to the cylinder of the engine; the steam comes in contact with the piston in the small cylinder of the indicator. A coil spring resists the movement of the indicator piston and as the spring is compressed, motion is transmitted through a series of links, to a pencil point. The rotation of the indicator drum is proportional to the stroke of the engine and the pencil point traces a curve on a card wrapped around the drum. The ordinates of this curve represent to some scale the pressure of the steam in...



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