



The Steam Engine Considered as a Thermodynamic Machine; A Treatise on the Thermodynamic Efficiency of Steam Engines

By James Henry Cotterill

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. 1896 Excerpt: .of the steam and the evaporation of the water. When a certain proportion exists between steam and water, the evaporation of the water exactly compensates for the condensation of the steam: a proportion which is given by the equation $x = \frac{h}{T_1 - T_2}$ where T_1 T_2 are the initial and final temperatures between which the change is supposed to take place. For a small change at temperature T , the above formula is very approximately equivalent to $T \times \frac{1}{T^2}$. 1440 At 38 lbs. on the square inch, this gives-5 as the value of x , which at high pressures will be at most-6, and at low pressures at least-45: if a greater change of temperature be considered, the variation in x will be less, and we may say generally that when a mixture of steam and water in equal proportions by weight expands without gain or...



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