Economy in the Use of Steam (Paperback)

By Frank Salter

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1874 edition. Excerpt: . Now in equation 1 let the increments diminish without limit, then d v v dp p from which we obtain by integration /log., ! = C-log.ep, tV = Op-1, or v-y x p. 3 From equation 2, when the increments diminish without limit, dp yl p and integrating, as before, loS.T = (1-) log, p + C, r = Cp(1-yl. 4 Those two equations, 3 and 4, represent, therefore, the relations between the pressure, volume, and temperature of gas undergoing expansion without loss or gain of heat from without. For steam y is 48 divided by 37 or 13, and equations 3 and 4 become p -I. 5 TOCp. 6 It must be remembered that these equations hold good only on the condition that the steam expands as a fixed gas, that is to say, without condensation, a condition which is complied with...

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