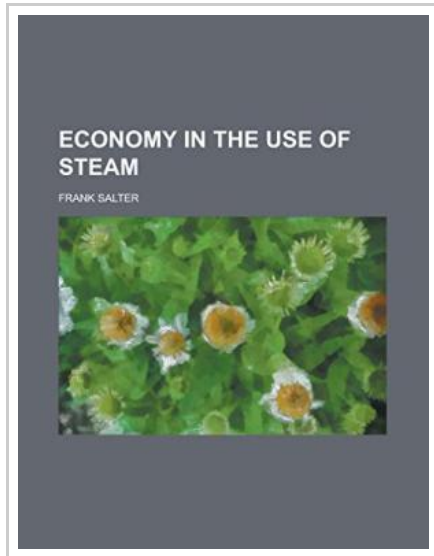



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Economy in the Use of Steam

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 $\int \log., \int = C - \log.ep, \int v = O p - 1$, or $v - y \times p$. 3 From equation 2, when the increments diminish without limit, $dp y l p$ and integrating, as before, $\log S.T = (1 -) \log, p + C, r = C p (1 - y l$. 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 $p - l$. 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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