Technical Thermodynamics; The Theory of Vapors

By Gustav Zeuner

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. 1907 edition. Excerpt: .pv = BT--Cp in equation (56), and also use equation (30), p. 231, remembering that with the vapor of water we substitute K-1 m = n, K we also get for the steam heat j-+(i- r, or, after using equation (51), p. 245, we find after some transformations J-Jo+l-)c9T (56c) For very great superheating or for the gaseous state there follows from this J=J0+cvT, the same equation which was found earlier for the gas heat or heat contents of a gas (Vol. I, p. 132). If, in the same way, we transform equation (57) which was first found for the total heat X, we get for the vapor of water Wo+cp-P), (57c) and this equation differs from that given by Regnault in that it is simultaneously valid for saturated and superheated steam, while Regnault s empirical formula is only valid for dry saturated steam. Let...

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