



## The theory of heat

By Thomas Preston

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 304 pages. Dimensions: 9.7in. x 7.4in. x 0.6in. 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. 1919 edition. Excerpt: . . . equation of the vapour, after Callendar, in the form (see Art. 245)  $Re\ c\ 13--a\ z---$ . p R9 and neglect the last term, since it is small for high temperatures, and 1 Phil. Mwj. , 1857. 8 Pogg. Ann. Bd. ciii. p. 185, 1858. if we put for  $v$  the specific volume  $v_2$  of the saturated vapour, and for  $a$  the specific volume  $i$  of the liquid (which is probably in most cases a fair approximation), we get R6 Combining this with the thermodynamic equation (5) of Art. 346, viz. we obtain  $dp\ L\ de\ 7Re$  Assuming  $L$  constant as a first approximation, this equation gives, on integration, , p Ll 1 which is Youngs formula. A closer approximation is got by taking  $L$  to be a linear function of the temperature, as in Art. 197, and this leads to Kirchhoffs formula. 1 1...



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