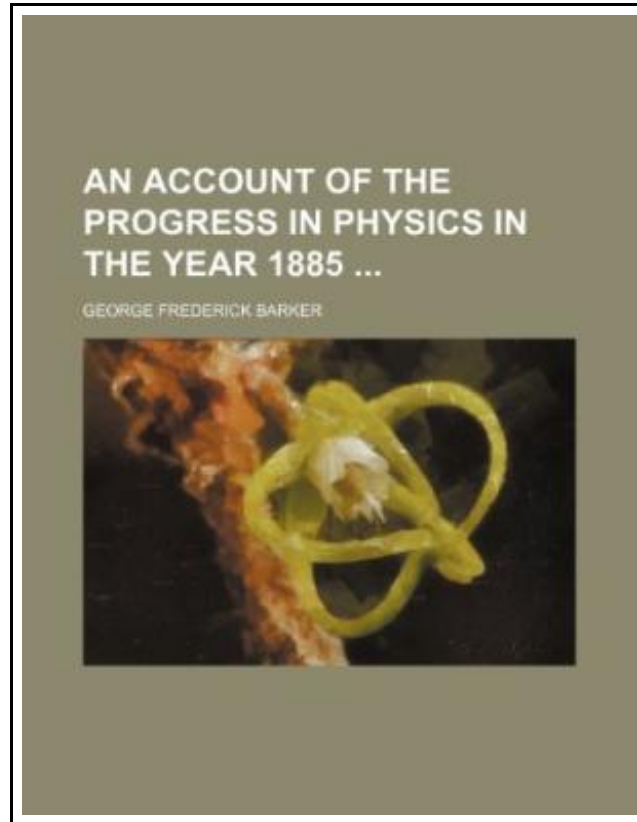


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1886 Excerpt: .rest of the apparatus being silvered or properly protected by sheets of bright tin. At sunset the water which has distilled over can be read off on the graduated tube and expressed in heat units. Nature, July, 1885, xxxn, 233.) According to Lommel s theory of fluorescence there should be an absorption band in the spectrum of esculin in the vicinity of the line A. Wesendonck has examined this part of the spectrum by means of phosphorographs and has been unable to recognize any such band in that region. (Wied. Ann., xxm, 548; J. Phys., November, 1885, II, iv, 533.) Velten has measured the specific heat of water at ordinary temperatures, using (1) the method of mixtures and (2) an ice calorimeter. The results are quite complex but the formula which appears to the author to represent best the results is of the form  $ct=l+at+t^3t^2+yt^?$ , in which  $a=-0.0007312756$ ,  $+0.0000079327$ , and  $j-0.00000002679$ , A t being the true specific heat at t0. This indicates that the specific heat of water has a minimum value at 43.5 and a maximum at 104.5. (Wied. Ann., xxi, 31; J. Phys., November, 1885, II, iv, 521.) Berthelot and Vieille, in their studies on the heat relations of the explosion of gaseous mixtures, have been able from the data obtained to calculate the specific heat of the elementary gases, of water and of carbon dioxide at high temperatures. Thus, for the simple gases N2, H2, and O2, as well as the compound gas...



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