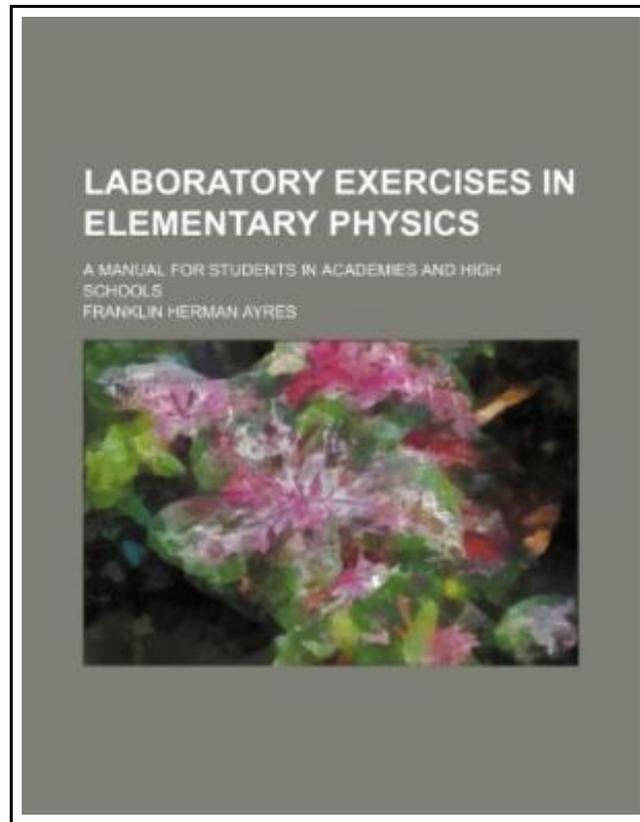


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1902 Excerpt: . the outer tube will also rise. Pour some mercury into the outer tube from time to time. If the apparatus is not watched closely the expanding air will drive all the mercury out of the outer tube. Endeavor to keep the level of the inner column at the height observed when ice-water was passing. As soon as the temperature becomes stationary, adjust the height of the outer column until the level of the inner column is precisely what it was when the ice-water was passing. If this operation is carefully performed, the condition of a constant volume will be nearly fulfilled. Read and record the height of both mercury columns with great care. Read the barometer. (3) Repeat (1) and (2) if there is time. Record data in tabular form. Calculations And Results.--From the reading of the barometer compute the temperature of steam for the day. Compute the total pressure acting upon the confined gas when the ice-water was passing. Express this pressure in centimeters of mercury. Call it P_0 . Compute the total pressure acting upon the gas when the steam was passing. Express this pressure also in centimeters and call it P_t . Then the coefficient of increase of pressure may be computed by means of the equation, $a = \frac{P_t - P_0}{t}$ where a is the coefficient of pressure and t is the change of temperature. Compare this result with the accepted value of the coefficient of pressure and with the coefficient of increase of...

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