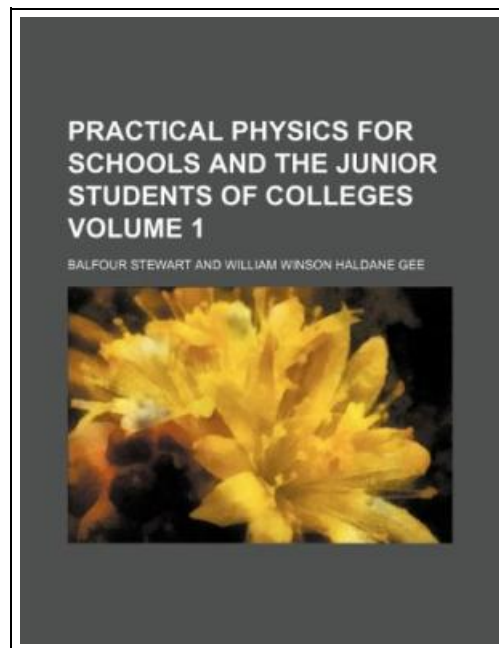


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1888 Excerpt: . strength of field produced by placing a long magnet above the vibration box. Method.--(a.) Find the time of oscillation of the suspended magnet as before, (b.) Place the long magnet with its long axis in the meridian, and with its south pole to the north, and again determine the time of oscillation, (c.) Apply the formul Exercise III.--To determine the moment of inertia of a magnet by experiment and calculation. Method.--(a.) Find the time of oscillation of the magnet by itself, and then with a brass bar fastened to it by silk thread, (b.) Apply the formula $I = \frac{M}{f^2}$ --p Lesson XVI.--Determination of H and M. 33. Apparatus.--The vibration box of the previous lesson and the deflection apparatus of Lesson XIV. Theory of Method.--Let us write formula (3), page 95, in a simplified form, so $MH=A$ (11) where A stands for the right-hand member of the equation. Refer now to page 89, where we obtained a formula $f=B$ (12) where B is the right-hand member of the expression there given. From (11) and (12) we find, by multiplication, $M^2=AB$, or $M = \sqrt{AB}$ (13) and by division $H^2=\frac{A}{B}$ B Formulae (13) and (14) thus enable us to find simultaneously the moment of a magnet and the horizontal component of the earth. Exercise.--A = 8, B = 2. Find M and H. Practice of Method.--This will be sufficiently clear from the following example: --/.--Deflection Observation.--Position of Magnet. Deflection. 47 l At r Distance from centre...



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