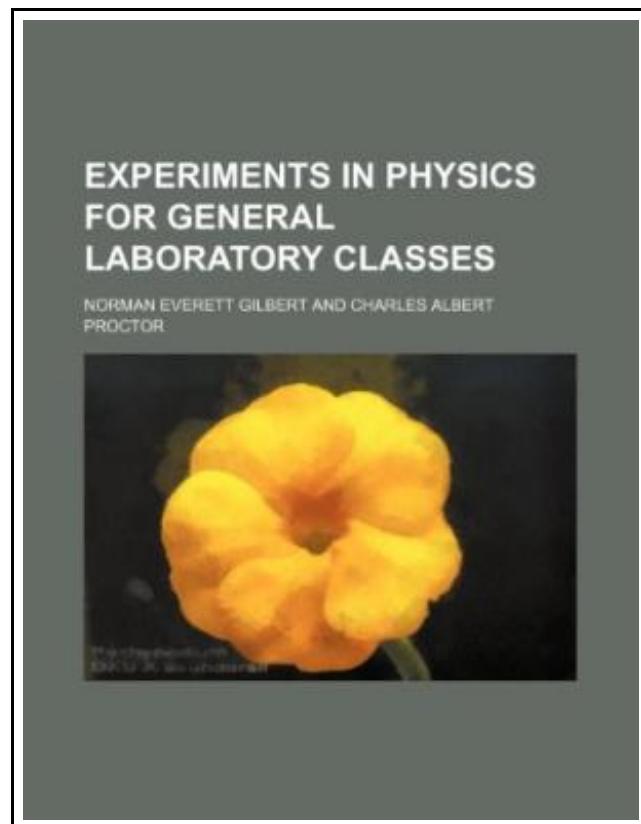


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1921 Excerpt: .Apparatus: --A glass tube containing some fine cork filings--Brass and iron rods--Clamps--Cloth and resin--Meter stick. The principle of this method is that used in Experiment 39. Sprinkle some fine cork filings along the inside of a long glass tube. Insert the end of a brass rod, slightly smaller than the tube, into the end of the tube. The rod should fit very loosely. Clamp the rod at its middle point. Stroke the rod longitudinally with a slightly resined cloth until it gives out a shrill note. Adjust the position of the glass tube until the air in the tube responds to this note. The nodes and antinodes within the tube will be distinctly indicated by the cork dust. A longitudinal wave passes to and fro along the brass rod. The middle point, under the clamp, is a node and the ends are antinodes. Thus the length of the rod is half the wave length of the note in brass. The distance between consecutive nodes in the air inside the tube is half the wave length of the note in the air. From this the ratio of the wave lengths, and hence of the velocities, in brass and in air may be determined, i.e. $V: V = X$ The velocity of sound in air under standard conditions is known. Compute it for the air in your tube and find the velocity of sound in brass. Use an iron rod and find the velocity of sound in iron....

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