



## Proceedings of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge Volume 47

By American Philosophical Society

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 edition. Excerpt: . tone strengthened. At the break, the old tone, already faint, would suddenly cease. Consequently, before breaking, both the old and new tones might be recognized, forming a sort of trill, or combination tone. This association of simultaneous tones had the effect of maintaining the primary current strength more nearly uniform. With the shorter tube-lengths, which involved a greater jump of frequency at the breaks, these combination tones were rarely heard, and the old note would break suddenly into the new note without any suggestion of a trill. In some of the observations, the notes, aside from the abovementioned trilling near to the breaking points, gave acoustical evidence of multiple tones. Occasionally, the principal tone was accompanied by an octave overtone. The octave might be either the first octave below, or the first octave above, the principal tone. Such overtones were comparatively faint. At...



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