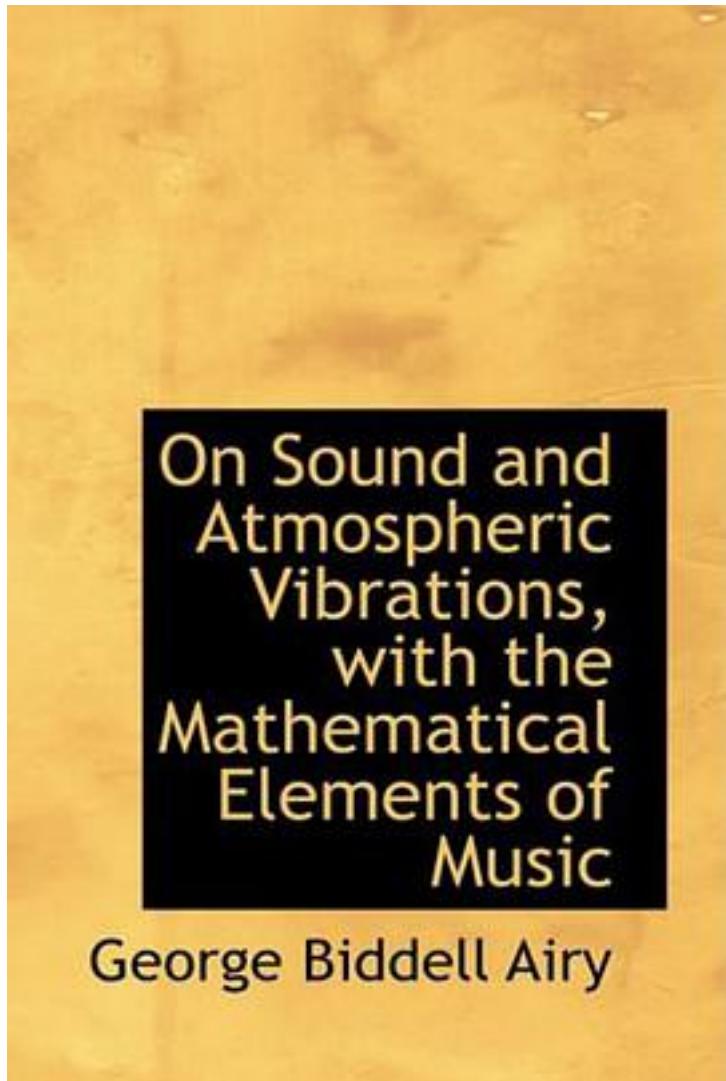


# On Sound and Atmospheric Vibrations, with the Mathematical Elements of Music



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1871. Designed for the Use of Students of the University. Contents: General Recognition of the Air as the Medium which Conveys Sound; Properties of Air, on which the Formation and Transmission of Sound Depend; Theory of Undulations, as Applied to Sound; and Investigation of the Passage of a Wave of Air Through a Cylindrical Pipe or of a Plane Wave Through the Atmosphere Generally; Investigation of the Motion of a Wave of Air through the Atmosphere Considered as of Two or Three Dimensions; Transmission of Waves of Soniferous Vibrations through Different Gases, Solids and Fluids; Experiments on the Velocity of Sound and on the Pressure Accompanying Atmospheric Waves; and Comparison of the Experimental Results with the Results of Theory; On Musical Sounds and the Manner of Producing Them; On the Elements of Musical Harmony and Melody and of Simple Musical Composition; On Instrumental Music and the Adaptations of Music Required by Special Instruments; and On the Human Organs of Speech and Hearing.

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