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"He who knows the secret of sound, knows the mystery of the whole universe." Hazrat Inayat Khan

Much of the information presented in this video is covered in the Handbook on Acoustics quoted below.

## from Handbook on Acoustics

"Although many works on the subject of Acoustics have been written for the use of musical students, the author of this book has not met with one which gives, in an elementary form, more than a partial view of the science. Thus, there are several admirable treatises on the purely physical and experimental part, but most if not all of them stop short just when the subject begins to be of especial interest to the student of music. On the other hand, there are many excellent works, which treat of the bearings of purely acoustical phenomena on the science and art of music, but which presuppose a knowledge of such phenomena and their causes on the part of the reader. Thus the oprdinary musical student, who can probably give but a limited amount of time to this part of his studies, is at the disadvantage of having to master several works, each probably written in a totally different style, and possibly not all agreeing perfectly with one another as to details. This disadvantage has been felt by the author, in his classes for some years past, and the present work has been written with the object of furnishing to the student, as far as is possible in an elementary work, a complete view of Acoustical science and its bearings on the art of music.

In the arrangement of the subject, the reader should observe that up to and including the 7th Chapter, the sounds treated of are supposed to be simple; the next four chapters treat of sounds-both simple and compound - singly, that is to say, only one tone is supposed to be produced at a time; the phenomena accompanying the simultaneous production of two or more sounds are reserved for the remaining chapters.

Although this book has not been written expressly for the use of students preparing for any particular examination, it will be found that a mastery of its contents will enable a candidate to successfully work any papers set in Acoustics at the ordinary musical examinations, including those of the Tonic Sol-fa College, Trinity College, and the examinations for the degree of Bachelor of Music at Cambridge and London. The papers set at these examinations during the last two years, together with the answers to the questions, will be found at the end of the book."

## TOPICS TO BE COVERED

- 01 The origin of a Musical Sound
- 02 The Transmission of Sound
- 03 On the Ear
- 04 On the Pitch of Musical Sounds
- 05 The Melodic Relations of the sounds of the Common Scale
- 06 On the Intensity or Loudness of Musical Sounds
- 07 Resonance Co-vibration or Sympathy of Tones
- 08 On the Quality of Musical Sounds
- 09 On the Vibrations of Strings
- 10 Flue-pipes and Reeds
- 11 On the vibrations of Rods and Plates
- 12 Combination Tones
- 13 On Interference
- 14 On Dissonance
- 15 The Definition of the Consonant Intervals
- 16 On the Relative Harmoniousness of the Consonant Intervals

17 - Chords

18 - Temperament

See Also

01 - The origin of a Musical Sound **1.21 - It Really Is a Musical Universe** 19.03 - Philosophy of Transmission and Rotation of Musical Sphere 19.05 - Excerpts from original Articles about Keelys Globe Motor or Musical Sphere **Etheric Liberator used with Atlin the Musical Dynasphere** Figure 13.15 - Equilibrium as Musical Tonal Equivalents Figure 14.01 - Overtones Developed Musically Showing Up as Isotopes along the Vertical Axis of this Chart Figure 4.17 - Musical Relationships of Colors Tones and Attributes Interval Music **Musical Dynasphere** musical globe Part 19 - Musical Dynasphere - Historical Part 20 - Musical Dynasphere - Current Research **Principles of Acoustics** 

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