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Title: Calculation of the relative speed of sound in a gas mixture

Authors: Ackerman, MJ
Maitland, G

Issue Date: 1975

Abstract: Since the frequency spectrum of a voice signal is directly dependent on the velocity of sound, studies of speech spectra include the problem of calculating the speed of sound in the gas mixture being used. A computer program written in BASIC has been developed to calculate the speed of sound relative to air in various diving gas mixtures. In addition, a set of tables available as a separate technical report has been generated using this program. These tables are designed to provide a standard reference for reporting spectral shifts in speech due to different gas mixtures under normal diving conditions. Computers Gases *Sound Support, U.S. Gov't, Non-P.H.S.

Description: Undersea and Hyperbaric Medical Society, Inc. (http://www.uhms.org)

URI: PMID: 1226588
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