of them, controlled by RCG. The notch filter is a bridged-T network, which can be made to discriminate very sharply against a narrow frequency band, without affecting response to frequencies removed only a few cycles from the limits of the notch. The depth of the notch. that is, the amount by which the level of the reverberation presented to the ear is attenuated with respect to the level of the received reverberation, can be controlled by an RCG circuit, in such a manner that the relations shown in the lower diagram are preserved at all times when appreciable amounts of reverberation are received. It would probably be desirable to leave the reverberation distinctly audible, to provide a pitch reference for doppler judgment.

Such a procedure would, of course, have no beneficial effect on the detectability of undopplered echoes. In fact, it would probably raise the recognition differentials for such echoes by introducing distortion and by dropping the stimulation level at the reverberation frequency. Its advantage for dopplered echoes, which may become increasingly important for the high-speed submarine recently developed, is obvious from the lower diagram in Figure 9.

In order to eliminate the effects of owndoppler, which would generally cause the frequency of the received reverberation to fall outside the limits of the notch filter, it would be necessary to rely on ODN or some other method of stabilizing the pitch of the received reverberation. ODN is an electronic device which samples the frequency of the received reverberation for a short interval immediately after each transmission. If the frequency of this short sample of reverberation is modified by own-doppler, the ODN unit alters the frequency of the heterodyne oscillator in such a manner that the output frequency of the reverberation at greater ranges is held to a constant value for a wide range of ship speeds and hydrophone orientations.

Effects of Headphone and Loudspeaker Presentation

These tests with headphones and loudspeaker presentation were undertaken in order to evaluate the significance of field reports received by the British which stated that "weak echoes are sometimes detected on the loudspeaker when they are inaudible in the [headphones]." Similarly, it had been reported "that, with echoes of fair strength, doppler is readily noticeable on the loudspeaker, while at the same time no doppler is reported from the operator using the [headphones]."

Sixteen observers were tested on their ability to hear 70-millisecond pulses with various amounts of doppler in the presence of reverberation. The test procedure was the same as that described in the previous sections. Each observer was required to identify the level of the primaudible pulse, to state whether its frequency was the same as that of the reverberation, and, if not, to specify whether its frequency was higher or lower than that of background. In the present section, the discussion is concerned solely with the effect of loudspeaker and headphone presentation upon ability to detect dopplered and undopplered pulses.

Range and bearing were fixed. Each listener made fourteen observations, corresponding to seven doppler conditions (0, ±20, ±40, and ±60 cycles), repeated with loudspeaker and headphones. The amount of doppler was varied at random among the seven conditions stated, and the effect of variation in reverberation level with time was minimized by alternating frequently between loudspeaker and headphone presentation. Since the tests extended over a period of several days, the difference in performance obtained by the two presentation



Figure 10. Effect of loudspeaker and headphone presentation on the detectability of pulses.

methods is much more significant than is the absolute level of performance. However, the latter, shown for both presentation methods in Figure 10, is in fair agreement with that shown in Figure 5.



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University of California (1868-1952).

Division of War Research. Sonar Data

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Recognition of Underwater Sounds, 1946 Recognition of Underwater Sounds OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT WASHINGTON DC.,1946 Recognition of Underwater Sounds United States. Office of Scientific Research and Development. National Defense Research Committee, Lyman Spitzer, 1946 International Regulation of Underwater Sound Elena McCarthy, 2007-05-08 Numerous incidents suggest that man made sound injures and can kill marine mammals This book offers an objective look at how ocean noise should be addressed given the lack of regulatory structure and the scientific uncertainty over the effects of noise on marine life It is an essential text for policymakers governments and NGOs biologists environmental activists oceanographers and those in the shipping engineering and offshore oil and gas industries Principles and Applications of Underwater Sound, Originally Issued as Summary Technical Report of Division 6, NDRC, Vol. 7, 1946, Reprinted...1968 United States. Navy Department, 1969 Principles and Applications of Underwater Sound United States. Office of Scientific Research and Development. National Defense Research A Survey Report on Basic Problems of Underwater Acoustics Research National Research Council (U.S.). Committee on Undersea Warfare, 1950 Summary Technical Report of NDRC, Master Subject Index United States. Office of Scientific Research and Development. National Defense Research Committee, 1946 **Principles of Underwater Sound** Robert J. Urick, 1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.).,1975 Advances in Noise Reduction and Feature Extraction of Acoustic Signal Govind Vashishtha, Rajesh Kumar, 2023-10-11 Acoustic signal is one of the hot topics of research in physics and has been studied by many engineers and scientists in various real world fields including underwater acoustics architectural acoustics engineering acoustics physical acoustics environmental acoustics psychological acoustics and so on Noise reduction is the foundation of acoustic signal pre processing and the feature extraction for noise reduction signals can obtain useful information from the acoustic signal which is the linchpin for pattern recognition target detection tracking and localization

Principles of Underwater Sound University of California (1868-1952). Division of War Research. Sonar Data Division, California. University. Division of War Research. Sonar Data Division, 1946 NBS Monograph United States. National Bureau of Standards, 1970 Proceedings of 2022 International Conference on Autonomous Unmanned Systems (ICAUS 2022) Wenxing Fu, Mancang Gu, Yifeng Niu, 2023-03-10 This book includes original peer reviewed research papers from the ICAUS 2022 which offers a unique and interesting platform for scientists engineers and practitioners throughout the world to present and share their most recent research and innovative ideas The aim of the ICAUS 2022 is to stimulate researchers active in the areas pertinent to intelligent unmanned systems The topics covered include but are not limited to Unmanned Aerial Ground Surface Underwater Systems Robotic Autonomous Control Navigation and Positioning

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web schematic here s a wireless charger schematic fig 2 general wireless power transfer schematic what do we need 1 mm thick wire 7 m 1 dot pcb board one 10k trim pot 103 one 555 timer ic 10 ohm resistors 10k resistors screw terminals 1 mini usb connector male creating the coils