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signal is a key enabling technique for
any active and passive underwater

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Technologies such as SONAR imaging, acoustic communication, depth detectors, and signal identification, all use as a backbone detection capability.

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A coherent underwater acoustic communication system must deal with the inter symbol interference caused by the time-varying, dispersive, shallow-water ocean environment.

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The system is characterized with high data rate and low bit error probability using BPSK modulation technique.

This paper contains the time-reversal process to acoustic communications in order to improve data telemetry in the ocean.

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% On the Relationship Between
Capacity and Distance in an %
Underwater Acoustic Communication
Channel Turbulence=17-(30*log10(f));
Noise_Turbulence=
power(10,(Turbulence*0.1)); Shipping
=40+(20*(s-0.5))+(26*log10(f))-(60*lo

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```
g10((f)+0.03)); Noise_Shipping=  
power(10,(Shipping*0.1)); Wind=50+(  
7.5*(power(w,0.5)))+(20*log10(f))-(40  
*log10((f)+0.4));  
Noise_Wind=power(10,(Wind*0.1));  
Thermal=-15+(20*log10(f));  
Noise_Thermal=  
power(10,(Thermal*0.1)); Noise=Noise
```

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This file contains codes for underwater channel estimation using 2-dimensional frequency sampling presented in [1]. [1]. A. Sen Gupta, N. Ansari, and A. Gupta, “Tracking the underwater acoustic channel using two-dimensional frequency

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Sampling," IEEE OES International
Symposium on Underwater
Technology 2015, Feb. 2015, Chennai,
India.

Underwater channel
estimation ISUT2015 - MATLAB &
Simulink

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The absorption coefficient can be obtained empirically by using Thorp's formula. This formula that used in the code is generally valid for the frequencies above a few hundred hz. The absorption coefficient is used to find the absorption loss part of the path loss in underwater wireless

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Communication. It increase rapidly
with frequency, and is major factor
that limits the maximal usable
frequency for an acoustic link of a
given distance.

The Matlab code for absorption
coefficient in underwater ...

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alamgirm/UnderwaterAcoustic: A MATLAB demonstration of underwater acoustic communication using OFDM technology. This demo implements simple multipath channels and allows transmission/reception of image files.

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GitHub -

alamgirm/UnderwaterAcoustic: A
MATLAB ...

In this paper, we propose the
underwater acoustic OFDM
(Orthogonal Frequency Division
Multiplexing) communication system

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with robust Doppler compensation.

This system has OFDM receivers with processing additional time domain signal processing such as signal shrink-expansion processing and Doppler shift compensation capabilities.

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An Underwater Acoustic OFDM Communication System with ...

Underwater communication has been a topic of great interest since the last decade. It plays a vital role in scientific data collection, environmental monitoring, disaster detection, navigation and other

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UNDERWATER WIRELESS COMMUNICATION USING MATLAB SIMULINK

underwater wireless acoustic
communications networks. Seaweb
networks require robust channel-

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tolerant utility packets having a low probability of detection (LPD) and allowing for multi-user access. MATLAB code simulated the DSSS transmitter and receiver structures and a modeled channel impulse response represented the underwater environment.

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THESIS - Defense Technical
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Re: Channel Model in Matlab for
Underwater Acoustic Comunication ME
too i need a model so badly, but what
the assumption you made for the
noise,multipath and reciever. for the

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noise i think we should use either
Gaussian or Alpha-Stable but i don't
have an idea about the multipath and
the receiver. Can any one help me
with this thanks in advance

Channel Model in Matlab for
Underwater Acoustic ...

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The detection of underwater signal is a key enabling technique for any active and passive underwater acoustic sensor applications.

Technologies such as SONAR imaging, acoustic communication, depth detectors, and signal identification, all use as a backbone detection

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Tutorial: Detection of Underwater Acoustic Signals - Oceans

acoustic waves ' low speed, the bandwidth and speed of the communication system is limited. This also depends on the regional

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application, whether applied in a shallow or a deep water region. The acoustic signal suffers attenuation, scattering, absorption, reverberation and undergoes distortion by ambient noises underwater. Predominately, underwater acoustic signals are affected

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Study of de-noising techniques for
SNR improvement for ...

The transmitted acoustic signals are first captured by an audio input device and fed to the channel emulator. The captured signals are signal processed in Matlab to account

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for path loss, noise and multipath
spread of a real underwater acoustic
channel.

Underwater Networking Testbed |

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"Underwater acoustic communication
channels: Propagation models and

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statistical characterization." IEEE
Communications Magazine 47.1
(2009): 84-89. At 100Khz, a ray
tracing model should be adequate and
you can get ray models at Porter's
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Credit: CC0 Public Domain In mobile underwater acoustic communications (UAC), the relative movement between the transceivers will cause Doppler spread in the received signal, which will bring...

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