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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 capability.

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A coherent
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system must deal with
the inter symbol
interference caused
by the time-varying,

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dispersive, shallow-water ocean

environment. 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

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% On the

Relationship Between

Capacity and

Distance in an %

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Channel Turbulence=

$17 - (30 * \log_{10}(f));$

Noise_Turbulence= p

ower(10,(Turbulence*

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```
0.1)); Shipping=40+(2  
0*(s-0.5))+(26*log10(f  
)-(60*log10((f)+0.03))  
; Noise_Shipping= po  
wer(10,(Shipping*0.1  
); Wind=50+(7.5*(pow  
er(w,0.5)))+(20*log10(  
f))-(40*log10((f)+0.4));  
Noise_Wind=power(1  
0,(Wind*0.1)); Thermo  
l=-15+(20*log10(f));  
Noise_Thermal= pow  
er(10,(Thermal*0.1));  
Noise=Noise_Turbule
```


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nce+Noise_Shipping+
Noise_Wind ...

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insert an underwater
acoustic channel ...

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Duncan . Centre for
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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 sampling,"
IEEE OES
International
Symposium on

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Underwater

Technology 2015,

Feb. 2015, Chennai,
India.

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Underwater channel
estimation_ISUT2015
- MATLAB & Simulink

The absorption
coefficient can be
obtained empirically
by using Thorp's
formula. This formula
that used in the code

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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 communication. It increase rapidly with frequency, and is major factor that limits the maximal usable frequency for an

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Underwater
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Demom
The acoustic link of a
given distance.

The Matlab code for
absorption coefficient
in underwater ...

GitHub - alamgirm/Un
derwaterAcoustic: A
MATLAB

demonstration of
under-water acoustic
communication using
OFDM technology.

This demo

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implements simple
multipath channels
and allows
transmission/reception
of image files.

[GitHub - alamgirm/UnderwaterAcoustic: A
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In this paper, we
propose the
underwater acoustic
OFDM (Orthogonal
Frequency Division

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Multiplexing)

communication
system 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

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capabilities.

Acoustic

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

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monitoring, disaster
detection, navigation
and other military
based applications.

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UNDERWATER

WIRELESS

COMMUNICATION

USING MATLAB

SIMULINK

underwater wireless
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networks. Seaweb

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networks require robust channel-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

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the underwater
environment.

THESIS - Defense

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Re: Channel Model in
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ME too i need a
model so badly, but
what the assumption
you made for the
noise,multipath and

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reciever. for the 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
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Tutorial: Detection of
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Signals - Oceans

acoustic waves' low speed, the bandwidth and speed of the communication system is limited. This also depends on the regional application, whether applied in a shallow or a deep water region. The

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Acoustic signal suffers attenuation, scattering, absorption, reverberation and undergoes distortion by ambient noises underwater.

Predominately, underwater acoustic signals are affected

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

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

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WINES

"Underwater acoustic
communication

channels:

Propagation models
and statistical
characterization."

IEEE

Communications

Magazine 47.1

(2009): 84-89. At

100Khz, a ray tracing

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model should be
adequate and you can
get ray models at
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Acoustic Library at:

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generate SIMO
underwater acoustic](#)

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(UAC), the relative movement between the transceivers will cause Doppler spread in the received signal, which will bring...

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d7fc4674d5875cbf1b7
cac3596d4