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NEETS MODULE

10-Wave Propagation,
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UNCLASSIFIED 1 WAVE
PROPAGATION

LEARNING OBJECTIVES

After you finish this chapter, you should be able to do the following: 1. State what wave motion is, define the terms reflection, refraction, and diffraction, and describe the Doppler effect. 2.

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PROPAGATION means "movement through a medium." In this case, the science of sound, light and radio waves moving through antennas and waveguides, the earth, sea, space, and atmosphere. It begins with some basic physics of light and sound waves, then moving into Doppler Effect, Radio Waves and Transmission Lines.

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propagation,
transmission lines, and
antenna theory. Topic
1 discusses wave

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motion, sound-wave
terminology, light
waves, properties of
electromagnetic waves
and the
electromagnetic
spectrum.
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Module 10,
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Propagation,
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presents the characteristics of wave propagation, transmission lines, and antennas. iv Module 11, Microwave Principles, explains microwave oscillators, amplifiers, and waveguides. Module 12, Modulation Principles, discusses the principles of modulation.

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ATMOSPHERIC
PROPAGATION

Refraction - 14182_72

Diffraction - 14182_73

THE EFFECT OF THE
EARTH'S ATMOSPHERE
ON RADIO WAVES

RADIO WAVE

TRANSMISSION

SURFACE WAVE SPACE

WAVE STRUCTURE OF

THE IONOSPHERE Four

Distinct Layers

REFRACTION IN THE

IONOSPHERE Density

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of Layer Angle of
Incidence Figure
2-18. Effects of
frequency on the
critical angle Skip ...

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Transmission

PROPAGATION means
"movement through a
medium." In this case,
the science of sound,
light and radio waves

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And ...**

The wave velocity, $v = \omega/\gamma$, is the speed with which a peak in the wave propagates along the transmission line.

The wavelength, $\lambda = 2\pi/\gamma$, is the distance

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between peaks in the wave at a particular point in time. The following table gives γ , v , and λ under various conditions.

Transmission Line Analysis

Module 8, Introduction to Amplifiers, covers amplifiers. Module 9, Introduction to Wave-Generation and Wave-Shaping Circuits, discusses wave generation and wave-

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shaping circuits.
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10--introduction to
wave propagation,
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antennas, chap 2, 4

Antennas Navy

**Radio Wave
Propagation**

Flashcards | Quizlet

For any wave to

propagate, there is the
need of a medium. The

transmission lines,
which are of different

types, are used for the
propagation of

Microwaves. Let us

learn about them in the

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next chapter.

Transmission
**Microwave
Engineering -
Introduction -
Tutorialspoint**

Due to the long
transmission range of
the radio waves,
interference between
transmissions is a
problem that needs to
be addressed. In the
VLF, LF and MF bands
the propagation of
waves, also called as
ground waves follow

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the curvature of the earth. The maximum transmission ranges of these waves are of the order of a few hundred kilometers.

**Antenna Theory -
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Density is key to wave speed because the wave has to move mass. Imagine moving two materials in a wave-like pattern, a

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string and a metal cable. It takes more energy to move the more massive metal cable than it does the string because the cable is much denser. To understand the elastic constant, imagine moving a yarn and a stiff rope.

5.1: Basics of Wave Propagation - Geosciences LibreTexts

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PART II DR. FARID

FARAHMAND FALL

2012 Wave

Equations for Navy

Transmission Line

Impedance and Shunt

Admittance of the line .

Solution of Wave

Equations (cont.) ...

Propagation Constant

(function of frequency)

! Impedance (function

of frequency) ...

**INTRODUCTION TO
TRANSMISSION**

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LINES - Physics 122

INTRODUCTION TO
WAVE PROPAGATION
Of the many technical
subjects that naval
personnel are expected
to know, probably the
one least susceptible
to change is the theory
of wave propagation.
The basic principles
that enable waves to
be propagated
(transmitted) through
space are the same
today as they were 70
years ago.

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Module 9, Introduction
to Wave-Generation
and Wave-Shaping
Circuits, discusses
wave generation and
wave-shaping circuits.

Module 10,
Introduction to Wave
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and Antennas,
presents the
characteristics wave

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Ground wave
propagation of radio
signals is of course
limited by the
curvature of the earth.
While lower frequency
radio waves (say below
500kHz) can follow the
terrain and have long
useful ground wave

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ranges, higher frequencies cannot be heard via a direct signal very far at all.

An Introduction to HF propagation - QSL.net

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antennas. Module 11, Microwave Principles, explains microwave oscillators, amplifiers, and waveguides.

Module 12, Modulation Principles, discusses the principles of modulation.

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Tsunami-generated acoustic-gravity waves have been observed to propagate in the

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atmosphere up to the
ionosphere, where they
have an impact on the
total electron content.
The aut

Electricity And
**The Propagation of
Tsunami-Generated
Acoustic-Gravity ...**

Early work concerning
wave propagation in
non-uniform elastic
bars was carried out by
Donnell . Wave
propagation in non-
uniform viscoelastic
bars was studied by

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Mao and Rader [3] .
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