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**Gordon West**

**Explains**

**Tropospheric**

**Ducting Antenna**

**Theory Propagation**

Basic VHF and UHF

Fundamentals Radio

~~Wave Propagation in~~

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Radio As Fast As  
Possible UHF  
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Radio Wave  
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UHF Propagation  
How do Radios  
Work? Complete  
Idiots Guide to RF  
Propagation—~~

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~~Amateur Radio~~  
Foundation *How does your mobile phone work? | ICT #1* Which is better: Vertical or Dipole? (#106) How Does An Antenna Work? | weBoost

FM Transmitter with 5 components

**Radio Fundamentals: An Introduction to HF | Codan Radio Communications**

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Tech 4.1, Propagation  
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*PROPAGATION OF  
ELECTROMAGNETI  
C WAVES PART 01*  
Theory Propagation

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Theory of the  
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Radio Waves in Coal  
Mine Tunnels

ALFRED G. EXSLIE,  
ROBERT L. LAGACE,  
MEMBER, IEEE, AND  
PETER F. STRONG

Abstract-The  
theoretical study of  
WF radio  
communication in coal  
mines, with particular

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of loss of signal  
UHF Waves

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mine tunnels.

Abstract: The  
theoretical study of  
UHF radio  
communication in coal  
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reference to the rate  
of loss of signal  
strength along a

tunnel, and from one

tunnel to another

around a corner is the

concern of this paper.

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While HF propagation pundits are concerned with the ionosphere, VHF/UHF enthusiasts generally have their sights set a little lower – on the troposphere. Under normal or flat conditions most VHF and UHF communications are generally thought to be line of sight – the higher your antennas



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the better.  
Fortunately, reality is actually a little different thanks to the way VHF and UHF signals can be refracted.

~~VHF/UHF  
Propagation - Radio  
Society of Great  
Britain ...~~

Theory of the  
propagation of UHF

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radio waves in coal mine tunnels.  
Abstract: The theoretical study of UHF radio communication in coal mines, with particular reference to the rate of loss of signal strength along a tunnel, and from one tunnel to another around a corner is the concern of this paper.

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Of prime interest are

the nature of the  
propagation

mechanism and the  
prediction of the radio  
frequency that  
propagates with the  
smallest loss.

~~Theory of the  
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Ground wave  
propagation of the  
wave follows the  
contour of earth. Such  
a wave is called as  
direct wave. The

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Propagation Of  
Wave sometimes bends due to the Earth's magnetic field and gets reflected to the receiver. Such a wave can be termed as reflected wave. The above figure depicts ground wave propagation. The wave when propagates through the Earth's atmosphere is known

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as ground wave. The direct wave and reflected wave together contribute the signal at the receiver station.

~~Antenna Theory~~  
~~Types of Propagation~~  
~~Tutorialspoint~~

Wave velocity is a general concept, of various kinds of wave velocities, for a

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Propagation of

wave's phase and

speed concerning

energy (and

information)

propagation. The

phase velocity is

given as:  $v_p = \frac{\omega}{k}$ , where:  $v_p$

is the phase velocity

(in meters per

second, m/s),;  $\omega$  is the

angular frequency (in

radians per second,

rad/s),;  $k$  is the

wavenumber (in





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There are no reflections back to the ground, so there is no useful propagation between stations on the ground.

~~propagation—Why  
can't VHF / UHF be  
used with ionosphere~~

...

Radio propagation is the behavior of radio waves as they travel,

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or are propagated, from one point to another, or into various parts of the atmosphere. As a form of electromagnetic radiation, like light waves, radio waves are affected by the phenomena of reflection, refraction, diffraction, absorption, polarization, and

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Understanding the effects of varying conditions on radio propagation has many practical applications, from choosing frequencies for international shortwave broadcaste

~~Radio propagation~~  
~~Wikipedia~~

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The ADS is  
operated by the  
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~~Theory of the  
propagation of UHF  
radio waves in coal  
mine ...~~

? 300 MHz - 3,000

*Page 29/39*

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Off Waves

MHz ? Government  
and public safety  
operate primarily at  
400 MHz to 470 MHz  
for incidents. Radio  
Theory The Basics.  
UHF - Ultra High  
Frequency. ? 400  
MHz to 420 MHz used  
in NIFC equipment  
primarily for logistical  
communications and  
linking ? Advantage of  
being able to transmit

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Propagation Of  
UHF Waves

great distances (2 watt UHF hand-held can transmit 50 miles maximum—line-of-sight in ideal conditions) ? UHF signals tend to ?bounce? off of buildings and objects, making them effective for ...

~~Radio Theory The  
Basics - Trainex~~

*Page 31/39*

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Propagation on the

UHF Bands •UHF propagation is

basically line of site.

Some long range

propagation is

possible with E-Layer

phenomena. •UHF is

used mainly for local

communication.

Sometimes UHF can

be part of a wide area

repeater system

allowing for interstate



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~~The science and  
study of radio wave  
reflection, refraction ...~~

This report presents a  
mathematical model  
for the propagation of  
UHF radio waves in  
the large cross  
section tunnels of a  
room-and-pillar  
limestone mine and  
describes the analysis

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of a small amount of propagation data obtained. The model and analysis is based on the waveguide mode theory, developed earlier for the transmission of UHF waves in coal mine tunnels, with allowance for propagation losses due to refraction into the tunnel walls.

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Propagation Of  
~~GDC – Mining –~~  
~~Propagation of UHF~~  
~~Radio Waves in~~  
~~Limestone ...~~

The most important propagation mechanism for short-range communication on the VHF and UHF bands is that which occurs in an open field, where the received signal is a

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Propagation Of  
Unit Waves

vector sum of a direct line-of-sight signal and a signal from the same source that is reflected off the earth.

~~RF Basics: Radio Propagation | EE Times~~

Electro-magnetic wave spectrum. While the whole of the electromagnetic wave spectrum covers a

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huge range of frequencies, radio waves themselves extend over a very large range as well. Again it is useful to be able to easily refer to different sections of the spectrum. To achieve this different designations are given to different areas.

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~~Radio Spectrum: LF  
HF MF VHF UHF →  
Electronics Notes~~

The National Film  
Board of Canada for  
the Canadian Air  
Forces - Great  
explanation of  
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