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THEORY AND DESIGN
AAR6UK 20 FEB 2017

Requirements A
properly designed Near
Vertical Incident
Skywave (NVIS)
antenna will have a
directivity pattern that
will maximize
transmission and
reception at high
angles while rejecting
low angle, long range
noise. Further, this
antenna must be
tunable over at least

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Introduction. A properly designed Near Vertical Incident Skywave (NVIS) antenna will have a directivity pattern that will maximize transmission and reception at high angles while rejecting low angle, long range

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noise. Further, this antenna must be tunable over at least

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It consists of two
crossed inverted "V"
dipoles positioned at
right angles to each
other and is supported
at the center by a 15-
foot mast. The antenna
was designed for

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military use from 2 to 10 MHz (some references say 2 to 30 MHz). The dual dipole wires do the job of providing guying support for the mast.

A Practical NVIS Antenna for Emergency or Temporary ...

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THEORY AND DESIGN
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... It consists of two
crossed inverted "V"

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dipoles positioned at right angles to each other and is supported at the center by a 15-foot mast. The antenna was designed for military use from 2 to 10 MHz (some references say 2 to 30 MHz).

Nvis Antenna Theory And Design

Your height above ground for a NVIS antenna flies in the face of engineering

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theory for an NVIS antenna. In short, an NVIS needs to be .15 to .25 wavelengths above ground for good performance. Yes, one will work just a few feet above ground and will be quieter than one higher up, but at what cost? Quieter simply because of ground losses.

80 Meter NVIS Antenna | W3ATB

□ NVIS stands for Near-

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Vertical Incidence
Skywave radio
propagation. □ NVIS is
used for short range
communications, that
is out to about 200 to
300 miles. □ The many
purposes for NVIS
propagation includes
military
communications and
emergency communi-
cations (EMCOMM).

- Maximum Usable
Frequency (MUF)

Theory, Modeling,

Page 12/25

Get Free Nvis Antenna Theory And Design **and Practical Applications By W5JCK**

At a 100,000-foot level though, a NVIS antenna is a dipole antenna that has a steeper transmit angle than a traditional horizontal flat-top dipole antenna and is located closer to the ground at between 8 to 15-feet Vs. a traditional $1/4\lambda$ height; let's say 30 to 60-feet over terra firma,

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Home Brew - NVIS Antenna | American Partisan

This NVIS antenna design by employing the 9:1 balun provides for the use of most internal and external automatic antenna tuners for rapid frequency change (QSY) under control operator direction or automated frequency changes using Automatic Link

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Establishment (ALE) use when ALE multi-channel scanning operation is employed.

AAR2EY All Band NVIS Antennae Designs - N2CKH

In particular, the near vertical incidence sky-wave (NVIS) propagation mode gives omnidirectional coverage from a central site; 300 km ranges are possible and the technique has

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an inherent ability...

(PDF) Short-haul communications using NVIS HF radio

The Near Vertical Incident Skywave (NVIS) antenna is one that provides the majority of its radiation at an extremely high angle. That is to say the major lobe is between 75 and 90 degrees to the earth's surface. This will provide excellent omni-

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directional
communication

The NVIS Antenna

It is based on the theory of super gain NVIS arrays, which reject QRM from low angles and produces a very high angle of radiation. The final design....still under testing by many hams but used by many....is extremely simple, uncritical and offers large gain and QRM

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rejection.

40 Meter Super - Gain NVIS Dipole

Near Vertical Incidence Skywave (NVIS) is an ionospheric skip operating technique that directs the strongest signals from a station vertically, or upward, rather than toward the horizon. Signals propagating nearly vertically approach the ionosphere with steep

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incidence angles and may be bent back to earth with similarly small angles.

NVIS | Ham Radio School.com

Improving the AS-2259 NVIS Antenna By N3AE and N3IDX Most CARA members just finished making NVIS antennas for HF emergency service use on 80 and 40 meters. The antenna design is based on the military

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AS-2259 with the dimensions shown in Figure 1. Further information can be found at W9WIS's web site.

CARA NVIS Article 3

About NVIS Antenna Design The resource is currently listed in dxzone.com in a single category. The main category is NVIS Near Vertical Incident Scattering Antenna that is about NVIS

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Antennas. This link is listed in our web site directory since Wednesday Oct 21 2015, and till today "NVIS Antenna Design" has been followed for a total of 350 times. So far received 1 votes for a total score of 9.00/10

NVIS Antenna Design - Resource Detail - The DXZone.com

The Yagi Uda antenna
Described and

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published by S. Uda and H. Yagi in the 1920s Did not receive full acclaim in the United States until 1928. Driven element is excited directly via feedline, all other elements excited parasitically. Element lengths/diameters and element spacing determine antenna behavior. Typical driven element: a bit less than $l/2$.

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The Yagi, J-Pole and NVIS Dipole

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Antennas ...

nvis wiring diagram antenna stealth - Wiring Diagram

NVIS (near vertical
incident skywave)
antennas are perfect
for local or regional use
out to about 300
miles/480 kilometers.

NVIS antennas are

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close to the ground
(between $1/10$ to $1/5$
wavelength above
ground) and shoot
most of their signals
straight up.

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