

# Versatile three-dimensional ray tracing computer program for radio waves in the ionosphere

U.S. Dept. of Commerce, Office of Telecommunications : for sale by the Supt. of Docs.,  
U.S. Govt. Print. Off. - Review of Propagation prediction programs

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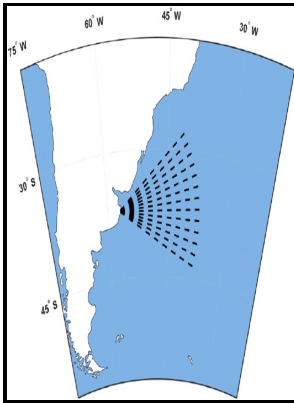
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OT report ; 75-76 versatile three-dimensional ray tracing computer

program for radio waves in the ionosphere

Notes: Bibliography: p. 64-66

This edition was published in 1975



Filesize: 28.63 MB

#versatile #three

Tags: #HARPO #[microform] #: #a

## Review of Propagation prediction programs

Subprotonospheric Whistler As was briefly mentioned in the introduction, the SP whistlers are characterized by 1 small dispersion, and 2 multiple echoes. That means they'll rattle back and forth between those altitude limits like a ball sliding down a smooth trough.

## CCDSP Tech

On both counts, the high-latitude F-region suffers a loss in ionization and critical frequencies in the affected regions are reduced. When a ray hits a surface, it can generate up to three new types of rays: reflection, refraction, and shadow.

## HF Propagation tutorial

A Mathematica® Notebook for 3D Ray Tracing for Radio Waves in the IONOSPHERE has been developed based on the FORTRAN Code by: R.

## HARPO [microform] : a versatile three

The other case is circular polarization, when signals are sent along the magnetic field direction.

## HF Propagation tutorial

The Institute for Telecommunication Sciences ITS is the research and engineering laboratory of the NTIA , an agency of the U. That was unfortunate as amateurs used the same methods at low levels of solar activity, often with misleading or disappointing results.

## **Influence of geomagnetic storms of September 26**

These ray tracings were based on the magneto-ionic theory of propagation as applied to a monotonically decreasing distribution of electrons in the magnetosphere and to the case in which only the effects of electrons are considered. Although developed to calculate the propagation of radio waves in the ionosphere, the program can be easily modified to do other types of ray tracing because of its organization into subroutines.

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