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. - HF Propagation tutorial

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OT report ; 75-76versatile three-dimensional ray tracing computer program for radio waves in the ionosphere
Notes: Bibliography: p. 64-66
This edition was published in 1975

Filesize: 25.32 MB

Tags: #Chemistry #in #Computer #programme #Software: #Ray_tracing #3d #generation #Ray #tracing #(graphics #and #physics)

Details

In either case of HF or VLF, the computation time necessary is an order of several seconds for one initial condition of wave normal direction, when we use a Personal Computer with Intel R on Microsoft Windows XP system. However, this study shows that, by making nominal assumptions about turbine characteristics and siting parameters such as local topography, it is possible to develop a universally applicable methodology for assessing potential interference between wind farms and ATC radars.

IONORT: A Windows software tool to calculate the HF ray tracing in the ionosphere

True photorealism occurs when the is closely approximated or fully implemented. Some ray paths do not return to the ground but diverge in the exosphere, a feature which seems inconsistent with the fact that whistlers can be observed on the ground. A set of canned simulations are included in this zip file and are somewhat standard test conditions.

Influence of geomagnetic storms of September 26

In the process of ray tracing, we need the spatial gradients of electron density. See also: Ray tracing may be used in the design of and , such as in , , , and , and its application in this field dates back to the 1900s.

Multi

A surface cannot, for instance, reflect 66% of an incoming light ray, and refract 50%, since the two would add up to be 116%. Ray tracing investigation of the magnetoionic effect. The SWF problem was fairly simple, just being the release of electrons in the ionosphere from the photoelectric effect of solar X-rays.

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