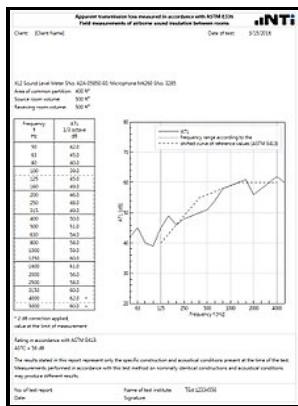# Predicting outdoor sound

Taylor & Francis - Typical Sound Speed Profiles

Description: -

-

Sound -- Recording and reproducing

Outdoor sounds -- MeasurementPredicting outdoor sound

-Predicting outdoor sound

Notes: Includes bibliographical references and index.

This edition was published in 2007

Filesize: 63.66 MB

Tags: #Predicting #Outdoor #Sound: #Attenborough, #Keith: #9780419235101: #satis.farmjournal.com: #Books

Some practical considerations for predicting outdoor sound propagation in the presence of wind and temperature gradients

The second edition of Predicting Outdoor Sound is an up-to-date reference on the propagation of sound close to the ground and its prediction. A total of 10 independent, nondimensional input parameters are found to be necessary for the training. Predicting Outdoor Sound provides a scholarly yet practical examination of the phenomena that affect outdoor sound close to the ground and its prediction.

Prediction of outdoor sound transmission loss with an artificial neural network

The text should be of considerable interest to researchers in outdoor sound propagation and, more generally, it should provide a comprehensive primer on the topic for lecturers, consultants and students in acoustics and noise control. The roughness length varies, for example, between 0.

Typical Sound Speed Profiles

Recently, a WKB-type approximation has been combined with turning point theory and applied to the efficient computation of the height-dependent Green's function, which, in turn, has been used in the fast field program FFP. The latter determines the incoming solar radiation and therefore the heating of the ground. The combined effects due to the vector wind and temperature gradients on sound propagation are studied.

Typical Sound Speed Profiles

The book brings together relevant theories, prediction schemes, and data, thereby providing a basis for determining what model or scheme might be applicable for any situation. In the absence of turbulence data, typical values of mean squared refractive index are between 10 -6 for calm conditions and 10 -4 for strong turbulence. The mean squared refractive index may be calculated from the measured instantaneous variation of wind speed and temperature with time at the receiver.

Prediction of outdoor sound transmission loss with an artificial neural network

The book brings together relevant theories, prediction schemes, and data, thereby providing a basis for determining what model or scheme might be applicable for any situation. Synopsis The second edition of Predicting Outdoor Sound is an up-to-date reference on the propagation of sound close to the ground and its prediction.

Predicting Outdoor Sound

Also, only 18% of the cases resulted in RMS errors that were greater than 2 dB. .

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