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Title: The proportion of wind noise in hydro-turbine generators

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Sounds from wind turbines The sound power level generally increases with increasing wind speed up to the rotational maximum. The sound can be amplitude modulated. Amplitude modulations in a sound ...

Among others, acoustic pollution generated by wind turbines constitutes a serious issue for the population and wildlife species. The coexistence of several complex flow phenomena ...

Recent developments in horizontal-axis wind turbine noise research are summarised and topics that are pertinent to the problem, but are yet to be investigated, are explored and suggestions for future ...

As critical components to transfer wind power into electric energy, drivetrains of wind turbines inevitably face challenges of higher vibration and noise. However, under the new situation ...

Much of the interest in wind turbine noise is focused on the noise anticipated from proposed wind turbine installations. An appropriate noise assessment study in this situation should contain the following four ...

The amount of noise generated by wind turbines is influenced by multiple factors: atmospheric conditions, whether the turbine is upwind or downwind from the person perceiving the sound, the ...

This chapter summarizes available information on the physical characteristics of the noise generated by wind turbines and includes example sound pressure time histories, narrow-band and broadband ...

Aerodynamic noise with coherent and impulsive amplitude variation by wind turbines is caused by a number of contributing factors and is defined as amplitude modulation (AM).

This paper discusses various noise generation mechanisms in wind turbines and potential noise reduction techniques. Special emphasis has been laid on reviewing aerodynamic noise ...

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