

# Theory of the response of airplanes to random atmospheric turbulence

## Institute of Aerophysics - Modeling the response of wind turbines to atmospheric turbulence (Technical Report)

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Bildungs- und kulturgeschichtliche Beiträge für Berlin und Brandenburg -- Bd. 1  
UTIA report -- no.54  
theory of the response of airplanes to random atmospheric turbulence  
Notes: Includes bibliographical references.  
This edition was published in 1958

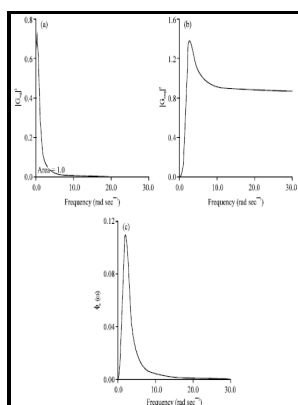
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**Modeling the response of wind turbines to atmospheric turbulence (Technical Report)**

The Von Karman model is used to



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characterize the correlation between velocities at spatially separated points.

### reference

Hirsch, Rene: Recherches théoriques et expérimentales sur les moyens de soustraire un avion aux accélérations que peuvent engendrer les perturbations atmosphériques. The reader is introduced to the basic concepts involved in modeling the turbulent fluctuations of the wind.

### Modeling the response of wind turbines to atmospheric turbulence (Technical Report)

The emphasis is placed on this model to identify the key turbulence inputs which are important in wind turbine design. The report presents numerous spectral density plots for the various turbine system responses, and discusses the results in some detail.

### DYNAMICS OF FLIGHT STABILITY AND CONTROL BERNARD ETKIN PDF

Designed to prepare students to become aeronautical engineers who can face new and challenging situations.

**reference**

Lin, Shih-Nge: A Mathematical Study of the Controlled Motion of Airplanes.

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