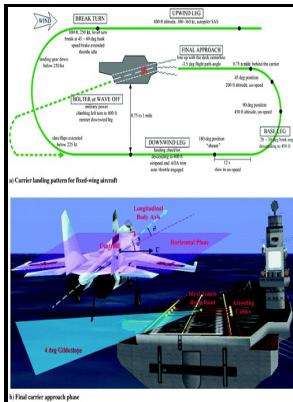


# Theory of the response of airplanes to random atmospheric turbulence

Institute of Aerophysics - [PDF] The Response of an Airplane to Random Atmospheric Disturbances

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## [PDF] The Response of an Airplane to Random Atmospheric Disturbances

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community has been studying the effects of atmospheric stability and surface roughness on the planetary boundary layer for some time, their effects on wind turbine dynamics have not been well studied. The root-mean-square RMS turbine loads are consistently larger when the surface roughness is higher.

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

## PartI-Turbulence Cited in BAC 111 Crash, June 10, 1968.

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

Abstract The statistical approach to the gust-load problem which consists in considering flight through turbulent air to be a stationary random process is extended by including the effect of lateral variation of the instantaneous gust intensity on the aerodynamic forces.

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