

DOS : Turbulent wind excitation

Number of participants: 0



Assuming that the wind model is a
1. stationary gaussian process, it is characterized by

0 correct answer
out of 0 respondent



A mean and a standard deviation

0%

0 votes



A mean and a power spectral density

0%

0 votes

A probability density function

0%

0 votes



2. The standard deviation can be obtained knowing

0 correct answer
out of 0 respondent

The mean value

0%

0 votes



The PSD

0%

0 votes

Both the mean value and the PSD

0%

0 votes



3. A wind spectrum is given as a function of

0 correct answer
out of 0 respondent

An intensity factor

0%

0 votes



A non-dimensional frequency

0%

0 votes

The maximum value of the wind speed

0%

0 votes



4. The turbulence is

0 correct answer
out of 0 respondent



constant with the height

0%

0 votes

decreasing with the height

0%

0 votes

increasing with the height

0%

0 votes



5. The mean velocity

0 correct answer
out of 0 respondent



increases with the height

0%

0 votes

decreases with the height

0%

0 votes

is constant with the height

0%

0 votes



6. The aerodynamic admittance is a factor which

0 correct answer
out of 0 respondent

represents the dynamic flexibility of an object

0%

0 votes



represents the total aerodynamic force acting on an object

0%

0 votes



is larger for small objects

0%

0 votes



7. The dynamic force acting on an object due to turbulent flow requires to have access to

0 correct answer
out of 0 respondent

The PSD of the wind

0%

0 votes

The aerodynamic admittance of the object

0%

0 votes

An aeroelastic model (quasi-steady)

0%

0 votes



All of the above

0%

0 votes