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N. C. Nigam, 1983,

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October 26, 2000

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passing over an  
aircraft wing. The  
turbulent airflow is a  
forcing function.

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(2.29) is not  
mathematically valid  
in the case of non-  
uniform flow because

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the power spectral density (PSD) of the excitation force,  $S_F(\omega)$  ( $= 2G(\omega)$ ) depends on the axial location along the tube. To avoid this problem, the following two approximate methods are applied: 1. The frequency composition of the excitation force is considered to be

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text describes and  
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relations for linear  
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in an easy to read way the issues of the random vibrations enlightening the stochastic nature of the random vibrations and the tools to manage the structural engineering problems. The main methods of analysis are exposed starting from the Fourier Transformation and



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you come from CS  
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response spectrum is  
particularly suited for  
random vibration  
inputs. Pure  
sinusoidal vibration,  
on the other hand,  
can be dealt with  
using time domain  
methods. The  
vibration response

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spectrum has many uses. The purpose of this tutorial is to present this function and give an example of a typical application.

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