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An Introduction To Random Vibrations And Spectral Analysis

Description. This is a substantially expanded edition of An Introduction to Random Vibrations and Spectral Analysis. The material that proved popular in earlier editions has been retained, but it is now supplemented by the latest major development in vibration analysis-the wavelet transform.

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viii Random Vibration and Spectral Analysis 2.7.1 Expected value 27 2.7.2 Moments 27 2.7.3 Schwarz inequality 28 2.7.4 Chebyshev's inequality 29 2.8 Characterstic function, Cumulants 29 2.8.1 Single random variable 29 2.8.2 Jointly distributed random variables 31 2.9 References 32 2.10 Problems 32 3 Random Processes 35 3.1 Introduction 35

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input.1 The base input is an acceleration power spectral density. The vibration 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 spectrum has many uses. The purpose of this tutorial is to present

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Introduction I was initiated into this field through the classical books by Y.K.Lin, S.H.Crandall and a few others. After the completion of my PhD, in 1981, my supervisor M.Gera.din encouraged me to prepare a course in Random Vibration for fourth and fifth year students in Aeronautics, at the University of Liege.

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