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10.1155/1994/561605. Authors: Richard J.
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The fact is that random vibration is actually a very well defined, reasonably repeatable vibration input but the drive signal is created by a random number generator, hence the name "random". The exciter motion is actually just a broadband vibration having a frequency-based shaping and an overall vibration level that is indicative of some

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real-world vibration (such as a test track or
regular road).

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mathematical knowledge in signal processing.

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On the other hand, random vibration is composed of a multitude of frequencies. In fact, random vibration is composed of a continuous spectrum of frequencies. Random vibration is somewhat analogous to white light. White light can be passed through a prism to reveal a continuous spectrum of

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colors. Likewise, random vibration can be
passed

Random Forcing Function and Response

Random vibration composed of two things:
Statistics and Vibrations. To understand well
in the subject, it is necessary to have
strong in Statistics. This book doesn't help
much for this part so you'd better begin with
some other basic statistical textbooks like
Hsu's.

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The most comprehensive text and reference available on the study of random vibrations, this book was designed for graduate students and mechanical, structural, and aerospace engineers. In addition to coverage of background topics in probability, statistics, and random processes, it develops methods for analyzing and controlling random vibrations. 1995 edition.

The topic of Random Vibrations is the

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behavior of structural and mechanical systems when they are subjected to unpredictable, or random, vibrations. These vibrations may arise from natural phenomena such as earthquakes or wind, or from human-controlled causes such as the stresses placed on aircraft at takeoff and landing. Study and mastery of this topic enables engineers to design and maintain structures capable of withstanding random vibrations, thereby protecting human life. Random Vibrations will lead readers in a user-friendly fashion to a thorough understanding of vibrations of linear and nonlinear systems that undergo

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stochastic-random-excitation. Provides over 150 worked out example problems and, along with over 225 exercises, illustrates concepts with true-to-life engineering design problems. Offers intuitive explanations of concepts within a context of mathematical rigor and relatively advanced analysis techniques. Essential for self-study by practicing engineers, and for instruction in the classroom.

I became interested in Random Vibration

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during the preparation of my PhD dissertation, which was concerned with the seismic response of nuclear reactor cores. 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. There was at the time very little material available in French on that subject. A first draft was produced during 1983 and 1984 and revised in 1986. These notes were published

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by the Presses Polytechniques et
Universitaires Romandes (Lausanne, Suisse) in
1990. When Kluwer decided to publish an
English translation of the book in 1992, I had
to choose between letting Kluwer translate
the French text in-extenso or doing it
myself, which would allow me to carry out a
sustantial revision of the book. I took the
second option and decided to rewrite or
delete some of the original text and include
new material, based on my personal
experience, or reflecting recent technical
advances. Chapter 6, devoted to the response
of multi degree of freedom structures, has

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been completely rewritten, and Chapter 11 on
random fatigue is entirely new. The computer
programs which have been developed in
parallel with these chapters have been
incorporated in the general purpose finite
element software SAMCEF, developed at the
University of Liege.

Introduction to Random Vibrations presents a
brief review of probability theory, a concise
treatment of random variables and random
processes, and a comprehensive exposition of
the theory of random vibrations.

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This book discusses the theory, applicability and numerous examples of Miles' equation in detail. Random vibration is one of the main design drivers in the context of the design, development and verification of spacecraft structures, instruments, equipment, etc, and Miles' equation provides a valuable tool for solving random vibration problems. It allows mechanical engineers to make rapid preliminary random response predictions when the (complex) structure is exposed to mechanical and acoustical loads. The book includes appendices to support the theory and applications in the main chapters.

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This self-contained volume explains the general method of statistical linearization and its use in solving random vibration problems. Numerous examples show advanced undergraduate and graduate students many practical applications. 1990 edition.

Random Vibration in Spacecraft Structures Design is based on the lecture notes "Spacecraft structures" and "Special topics concerning vibration in spacecraft structures" from courses given at Delft University of Technology. The monograph,

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Mechanical Engineering
which deals with low and high frequency
mechanical, acoustic random vibrations is of
interest to graduate students and engineers
working in aerospace engineering,
particularly in spacecraft and launch vehicle
structures design.

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