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

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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 colors. Likewise, random vibration can be passed

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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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