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Introduction to Vibration Testing

Webinar 3 - Sine
Sweep Vibration
Before the Big
Bang 7: An Eternal
Cyclic Universe,
CCC revisited
\u0026 Twistor
Theory A Sine Bar

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Walks Into a... wait

Is Anything Truly

Random? *The Real*

Story of Paris

Hilton | This Is Paris

Official

Documentary

~~Walter B. Rudin:~~

~~"Set Theory: An~~

~~Offspring of~~

~~Analysis"~~ Sine

Vibration Testing

Vibration Research

Random Vibration

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Analysis | An
Introduction | With
real life Examples
All About that

~~Bayes: Probability,
Statistics, and the
Quest to Quantify
Uncertainty~~

**Terence Tao:
Structure and
Randomness in
the Prime
Numbers, UCLA
The Mathematics**

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**of Signal/s
Processing | The
z-transform,
discrete signals,
and more Cool
Hearing test**

AC Theory

Introduction: The
Mystery of the
Fluorescent Lamp!

Hearing Test

Sounds at 6 - 15 -

20 hz a test of

auditory awareness

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(listen with
headphones!)

Vibration Testing
for POLARIS-K19S4

Mounts 20Hz to
20kHz (Human
Audio Spectrum)

SDOF Resonance
Vibration Test

Hearing Test HD

**Modal Vibration
Shaker Demo -
75 lbf / 334N**

Virtual shaker 3

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~~axes sine sweep~~
~~vibration test~~
~~simulation using~~
~~Ansys nCode~~ **The**
Revelation Of
The Pyramids
(Documentary)
System
Identification
Methods **An**
Introduction to
Vibration Testing
on Shakers from
Crystal

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Dark Matter and
the Dinosaurs
Lecture Series:

Professor Lisa
Randall, Spring
2018
~~Cool Hearing
Test: Are You a
Superhuman?~~

*Octave Frequency
Sweep,
Consonance*

*\u0026amp; Dissonance
- A220 Sine Wave*

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What's a Sine
Wave Sweep? - www.AcousticFields.com
m *Theory Sine*

Sweep Vs Random
Theory Sine Sweep
Vs Random Sine
vibration testing
applies a single
frequency to a test
item and
selectively excites
resonant structures
within the device.

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In a swept sine test a vibration sine tone is ramped up and down through a range of frequencies and for a specified rate and duration.

*Theory Sine Sweep
Vs Random
Vibration Testing*
Theory Sine Sweep
Vs Random

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Vibration Testing

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Random Vibration
Testing Keywords:
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vibration, testing

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*Theory Sine Sweep
Vs Random
Vibration
Testing*

- The relative severity of a sine test and a random test will vary depending on the product's resonant frequencies and Qs. • In general, when sine and random tests have

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the same peak vibration levels at the control point, the product will see higher vibration levels with the sine test than with random due to the resonances of the product

*Vibration Testing
Sine Vs. Random*
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Theory Sine Sweep
Vs Random
Vibration Testing
future. But, it's not
Lonesome kind of
imagination. This is
the epoch for you
to make proper
ideas to create
augmented future.
The way is by
getting theory sine
sweep vs random
vibration testing as

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one of the reading material. You can be fittingly relieved to log on

Testing

*Theory Sine Sweep
Vs Random
Vibration Testing*

Sine vibration testing applies a single frequency to a test item and selectively excites resonant structures

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within the device.

In a swept sine test a vibration sine tone is ramped up and down through a range of frequencies and for a specified rate and duration.

*Sine Vibration vs.
Random Vibration
Testing. Which
Should ...*

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Random Vs. Sine.

Sinusoidal vibration tests typically are not as helpful as random testing in certain condition since a sine test focuses on single frequency consistently. A random vibration test, however, always excites all the frequencies

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within a defined spectrum. Wayne Tustin's had a good lay person's description of random vibration:

*Understanding
Random Vibration
Testing and Sine
Testing*

That's precisely why a sine sweep test exists in the

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first place. In other words, a 2-g rms random has its energy statistically distributed across the entire spectrum, so the amount energy available for exciting any mode is statistically low. Contrast with even a 0.1-g sine sweep where the entire

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0.1-g acceleration
is applied directly
into a mode.

*Sine sweep vs
Random -
Mechanical
Acoustics/Vibration*

...

Sine-on-Random
(SoR) vibration
testing contains
sine tones that are
superimposed on a

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low level of broadband random vibration. The sine tones can be fixed frequency or sweeping. If they are sweeping, they are normally very narrow frequency bands. Some examples of SoR vibration are from helicopters, propeller driven

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airplanes and aircraft rapid gunfire events. All aircraft have some levels of random vibration. In helicopters and propeller driven airplanes, the sine tones are produced by the ...

*Mixed Mode: Sine
on Random*

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*Vibration Testing,
RoR, SoRoR ...*

Random vs. Sine.
Sinusoidal vibration tests are not as help-ful as random testing, because a sine test focusses upon a single frequency at any one time. A random vibration test, on the other hand, excites all

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the frequencies in a defined spectrum at any given time. Consider Tustin's description of random vibration – "I've

What is Random Vibration Testing?

Sweep Rate: The rate at which the frequency range is traversed. The

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units for sweep rate are usually Octave/minute or Hz/minute. Octave per minute is a logarithmic sweep rate while Hz/minute is a linear sweep rate. Random Vibration Testing. Random Vibration is a varying waveform.

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*Sinusoidal and
Random Vibration
Testing Primer -
Delserro ...*

An endurance test of one hour at a frequency of 16Hz is equivalent to $3600 \times 16 = 57,600$ changes, which is significantly more than with the sine sweep test.

Conversion of a

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Sine sweep test into a random vibration test The frequently used MIL-STD-810 standard states that a 1-to-1 conversion of a sine sweep test to a random vibration test is not possible and that a measured vibration level is the best basis for

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formulation of
vibration
requirements.

Effects of shock and vibrations

An electrodynamic shaker running a full force random profile can be as loud as a jet engine. While performing a sine sweep to find a res-

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onance point, the shaker can start out as a low-pitched hum and rise to an ear piercing scream. It is for these reasons that a sound enclosure should house the shaker system.

*Fundamentals of
Electrodynamic*

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Vibration Testing Handbook

The sine vibration is measured in G peak, while the random vibration is measured as G rms, with the peak G levels typically left to a statistical assumption. A quick calculation tells us that the random test, which

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can have peak values up to 4 or even 5 times the RMS level, will apply $4 \times 1.05 \text{ G rms}$, or 4.20 G peak to our product.

*Test My Product
Using Sine or
Random? -
Vibration Research
Structures and*

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components may be mounted on shaker tables, similar to those in Figure 4.9 and Figure 4.10, and subjected to sine sweep base excitation. The essence of a sine sweep test is that the base excitation input consists of a single frequency at

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any given time.

The frequency
itself, however, is
varied with time.

Testing

Sine Sweep Testing

| *enDAQ*

fore be larger when
used with random
than with sine
excitation. The
random spectrum
is described by its
power spec-tral

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density or
acceleration
spectral density.
ASD «m/s²)²/HZJ.

To shape and
control this. the
vibration must be
analyzed by a
narrow band
analyzer and com-
pressor loops
applied to ea9h
bandwidth. Digital
tech-

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Sweep Vs
Vibration Testing
(br0227)

The sine-sweep
apparent mass
magnitude values
from 10 Hz to 50
Hz are much lower
than the
broadband random
apparent-mass
magnitudes for all
the excitation
amplitudes (e.g.,

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130 g vs. 500 g)
but the differences
reduce with the
frequency and
slowly converge.

*The importance of
harmonic versus
random excitation
for a ...*

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*Correlation of
Sinusoidal Sweep
Test to Field*

Random ...

Sine-on-random
(SoR) control
simulates complex
vibration
environments with
a combination of
broadband random
excitation and
sinusoids or

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'tones'. Generally, both signal types are present simultaneously and the tones may either appear at fixed frequencies or sweep over a frequency range.

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Random
Vibration
Testing