

Miles Equation

Vibrationdata

The Miles equation is a simplified method of calculating the response of a single-degree-of-freedom system to a random vibration base input, where the input is in the form of a power spectral density.

The Miles equation is

$$\ddot{x}_{GRMS} = \sqrt{\frac{\pi}{2} P f_n Q}$$

where

\ddot{x}_{GRMS} is the overall response

Q is the amplification factor

P is the power spectral density level at the natural frequency

f_n is the natural frequency

Random Vibration Analysis Using Miles Equation And Workbench

Kathleen Armour



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