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the linear behavior of the
structure or system during
its operation. That is, its
stress/strain response is
linear and when a load is
removed, the structure
returns to its original
position in a stress/strain
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in ...

Vibration analysis is useful
tool for performing a number
of functions including: 1.
Usefulness of vibration
analysis: • Evaluating
machine condition •
Diagnosis of machine fault
at various operational
condition • Monitoring and
trending of machine
conditions over time and
prediction of fault. 2. Some

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Within the field of vibration analysis, the most common type of analysis is that based on the linear behavior of the structure or system during its operation. That is, its stress/strain response is linear and when a load is removed, the structure returns to its original position in a stress/strain free condition.

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Increase the Frequency. $\frac{3}{4}$ The
fan is now going twice as
fast. $\frac{3}{4}$ Cycles of the

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waveform are closer together. $\frac{3}{4}$ Fan speed = 10 Hz or 600 RPM. The 'Amplitude'. $\frac{3}{4}$ The height of the wave is the "amplitude". $\frac{3}{4}$ Because of the weight on one blade, the vibration level increases as the fan speeds up.

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Frequency analysis is the essence of vibration analysis and enables the satisfactory resolution of most machine problems. It is important to understand the relationship between the TIME WAVEFORM and the FREQUENCY SPECTRUM. On the following page is a sketch showing a geared motor producing three different forms of vibration.

Fundamentals of Vibration
Measurement and Analysis
Explained

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One Hertz (Hz) is equal to 1 cycle / second. It is the most common term used in vibration analysis to describe the frequency of a disturbance. Never forget the 1 cycle / second relationship ! Traditional vibration analysis quite often expresses frequency in terms of cycle / minute (cpm).

Beginning Vibration Analysis with Basic Fundamentals
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2 CHAPTER 1 FUNDAMENTALS OF
VIBRATION systems. The
various classifications of
vibration namely, free and
forced vibration, undamped
and damped vibration, linear
and nonlinear vibration, and
deterministic and random
vibration are indicated. The
various steps involved in
vibration analysis of an

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Vibration monitoring can be
defined as the monitoring of
the rotary equipment (pumps,
compressors, turbines, fans,
etc.) using a set of tools
to find out equipment health
continuously or at a

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predetermined interval that can develop vibration (or equipment malfunction) in the system. These tools sense the vibration signals and convert them into some physical phenomena so that condition of the equipment health is determined.

Basics of Vibration

Monitoring - What Is Piping:
All about ...

Vibration- Measurable

Characteristics Velocity is the first derivative of displacement as a function of time, it is the rate of change in displacement (the speed of the vibration).

Acceleration is the second derivative of displacement,

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