

# THE VIBRATION ANALYSIS WALL CHART®



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S U B S T A N T I A L R E S O N A N C E

**Substantial Resonance**

Occurs when the excitation frequency is equal to the natural frequency of the system. This results in a large increase in the amplitude of the response.

**Diagrams:** Shows a graph of amplitude vs. frequency with a sharp peak at the natural frequency. Includes illustrations of a mass-spring-damper system and a rotating shaft with a crack.

S U P E R H A R M O N I C

**Superharmonic**

Occurs when the excitation frequency is an integer multiple of the natural frequency. This results in a smaller increase in the amplitude of the response.

**Diagrams:** Shows a graph of amplitude vs. frequency with multiple peaks at integer multiples of the natural frequency. Includes illustrations of a mass-spring-damper system and a rotating shaft with a crack.

S U B H A R M O N I C

**Subharmonic**

Occurs when the excitation frequency is a fraction of the natural frequency. This results in a smaller increase in the amplitude of the response.

**Diagrams:** Shows a graph of amplitude vs. frequency with multiple peaks at fractional multiples of the natural frequency. Includes illustrations of a mass-spring-damper system and a rotating shaft with a crack.

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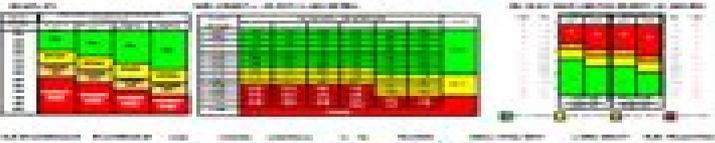
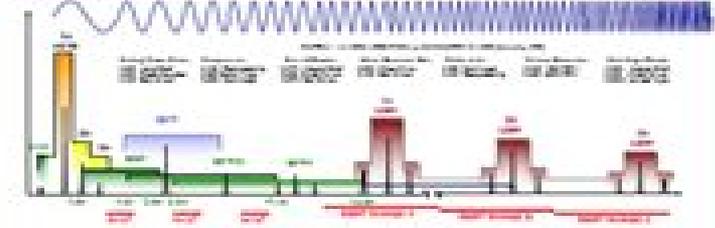
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## TIME WAVEFORM PERIOD VARIATIONS WITH ROTATING SPEED



## TIME WAVEFORM VARIATIONS WITH SIGNAL CONTENT



## AERO - HYDRODYNAMIC FAULTS



## AC MOTOR ELECTRICAL FAULTS



## DC MOTOR ELECTRICAL FAULTS



## GEAR TOOTH FAULTS - GEAR MESHING FAULTS - GEAR TRAIN FAULTS - TOOTH REPEAT FAULTS



# Vibration Spectrum Analysis

**Daniel F McAuley**



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