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Vibration Analysis
Test Questions

Basic Vibration Analysis Test Questions

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Analysis Test Questions

Common questions for those having little or no experience with vibration analysis are “Should I attend the Entry or Analysis I seminar?” and “Am I ready for Analysis I?” Analysis I assumes and builds on what is taught in Entry Class and assumes the student has a basic understanding of vibration measurement

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VIBRATION ASSESSMENT QUIZ - Vibration Analysis & Vibration ...

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Question 1 Unbalance
is a machine defect
that typically affects
what frequency? $2 \times$
Line Frequency; 1800
cpm; $1 \times$ turning speed;

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2× turning speed
because the heavy
spot is at a vertical
point twice each
revolution;

Test Your Vibration Analysis Knowledge

in the vertical
direction, compute the
amplitude of the child's
vibration. • Assume
that the vertical
velocity of the child is
zero when it contacts
the ... Practice

Questions for EXAM 1 2

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2. A horizontal spring-mass system has a mass of 200 g and spring stiffness of 4.44 N/m. If the mass is given an initial

MAE 340 MECHANICAL VIBRATIONS Practice Questions for EXAM 1

No explanation is available for this question! 4) Two springs have spring stiffness of 1500 N/m

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and 2000 N/m respectively. If they are connected in series, what is the spring stiffness if they are replaced by an equivalent system. 3500 N/m

Fundamentals of Vibration - Interview questions and ...

LEVEL I VIBRATION
CERTIFICATION

SUGGESTED TOPICS 1.

Basic vibration
terminology,

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Amplitude, Frequency,
Spectra, Waveforms 2.
“Averaging Modes”
how the signals are
processed 3. Sub-
Synchronous defects
(Spectral & Waveform
Characteristics) 4.
Synchronous defects
(Spectral & Waveform
Characteristics) 5.

LEVEL I VIBRATION CERTIFICATION SUGGESTED TOPICS

Vibration analysis

³/₄What is machine

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vibration ³/₄ Measuring and analyzing vibration ... BASIC Vibration Analysis. ³/₄ In practice, we watch how the ... state during every test. ³/₄ Check the speed and load with each measurement. Repeatability. ³/₄ Tests are typically

An Introduction to Vibration Analysis Theory and Practice

What is the type of
vibration pick-up

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(contact or non-contact type) commonly installed on a gas turbine? On gas turbine vibration measurement, the 'contact type' pick-up such as a velocity or acceleration pick-up is used. What type of vibration measuring instrument is used on the compressors? Where is the vibration measuring points?

Interview Questions

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on Vibration

Measurement ...

Beginning Vibration
Analysis with Basic
Fundamentals By: Jack
Peters. Jack D. Peters
Beginning Vibration 2

Introduction

Understanding the
basics and

fundamentals of
vibration analysis are
very important in
forming a solid
background to analyze
problems on rotating
machinery. Switching

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between time and frequency is a common tool used for

Beginning Vibration Analysis with Basic Fundamentals

| | |
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54 1.11 Harmonic
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MATLAB 76 1.13
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Fundamentals of Vibration - Unife

- Analysis indicates specific faults What is Vibration?
- Motion of machine components
- Caused by dynamic

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forces What types of
Vibration are there? •
Periodic - (i.e.,
Machinery Shaft
Speed) • Random -
(i.e., Varying) •
Transient - (i.e., Pump
cavitation due to
improper system line-
up) How is Vibration
described?

Predictive Maintenance (PDM) Questions & Answers

Category | Exam (a

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2-hour test) will be administered the morning after the course. Course Information: Basic Vibration Analysis with Category I Exam October 30th to November 2nd 8:00 AM to 4:00 PM daily November 3rd (exam day) 8:00 AM to 10:00 AM R.S. Stover Company 3809 South Center St. Marshalltown, IA 50158 \$2,450 per person

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Basic Vibration Analysis with Category I Exam

Vibration Analysis is defined as the technique of measuring vibration to identify anomalies in industrial machinery. Using FFT algorithms, Vibration Analyzers separate vibration signals into amplitude and frequency components to facilitate failure recognition.

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The 10 Most Important Vibration Analysis Tips You Need to ...

VIBRATIONS -Basic
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VIBRATIONS -Basic Definitions

Educational
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opportunities are available to meet the training hour recommendation and partially prepare for the Vibration Analyst certification exam at your organization. Category II Vibration Analysts are qualified to perform basic vibration analysis using single-channel instruments according to established procedures, set-up instruments, and ...

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Vibration Analyst Categories - Vibration Institute

Structural vibration testing and analysis contributes to progress in many industries, including aerospace, auto-making, manufacturing, wood and paper production, power generation, defense, consumer electronics, telecommunications and transportation.

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This application note provides an introduction to the basic concepts of structural vibration.

Basics of Structural Vibration Testing and Analysis ...

Communication (1872)

Computer (24036)

Economics (6122)

Education (4215)

English (4136) Finance

(3773) Foreign

Language (178958)

Geography (3457)

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builds on what is

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and assumes the student has a basic understanding of vibration

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