

A Brief Tutorial on Machine Vibration

By
Victor Vasilek, P.E.
Machine Dynamics, Inc.

The purpose of this tutorial is to provide sufficient knowledge to understand machine vibration (diagnosis) - you may be asked with nothing a vibration problem, or you may be overseeing someone else and you need to understand the process. This tutorial discusses the programs, taking measurements, analyzing the data, additional testing, understanding the physics, and finally, fixing the problem. It provides practical information that has proven useful over several decades in solving all forms of machine vibration problems, with a few notable exceptions. There are usually several technical solutions to any vibration problem, and this tutorial will guide you through the choices.

The first step is to understand the problem from its observed symptoms. This means observation and measurements to quantify the symptoms, and then analysis to interpret the data. It is usually best to proceed from a position of knowledge while defining symptoms that are not supported by the data. The diagnosis is the shorter part of the journey, taking you perhaps several hours to accomplish, but is the most important part because recommendations here will correct many problems and many hours of remedial work. We would like the correction to be successful on the first attempt.

Strategy

All vibration is not bad. Machines produce some oscillatory motion as part of their normal operation and there are nothing to be concerned about. I call these benign vibrations and here are some examples:

- 100-600 rpm rotor runs
- blade passing frequency
- gear mesh from rotors, especially those driven by VIBES
- structural resonance from fluid handling machines, like fans and pumps
- ground frequency

These benign vibrations are characteristic of regular operation of a machine doing what it is supposed to do. The amplitudes will vary from machine to machine and are a measure of the quality of manufacturing and load conditions. The presence of these benign vibrations at "normal" levels provides a comfortable feeling that the machine is well alive. A change above normal levels, not explained by a corresponding load change is reason for investigation, but not alarm. Serious vibrations are:

- 10-100 amplitudes above the baseline levels in Table 1.
- shock pulses
- large shelling events
- abnormal noise

These serious vibrations will cause accelerated wear and premature failure. They should be acknowledged as alarming and addressed with some corrective action.

The first task in the vibration analysis is to obtain frequency selective amplitude data to identify the source of vibration. The frequency is the key characteristic that identifies the possible causes and data the amplitude is used to judge the severity. This means having a vibration analysis on one's disposal. More on this in the section "Instruments and Methods." This takes us to the first task in the analysis (immediately), Figure 1. The

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Table of Contents A Brief Tutorial On Machine Vibration

1. Understanding the eBook A Brief Tutorial On Machine Vibration
 - The Rise of Digital Reading A Brief Tutorial On Machine Vibration
 - Advantages of eBooks Over Traditional Books
2. Identifying A Brief Tutorial On Machine Vibration
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A Brief Tutorial On Machine Vibration
 - User-Friendly Interface
4. Exploring eBook Recommendations from A Brief Tutorial On Machine Vibration
 - Personalized Recommendations

- A Brief Tutorial On Machine Vibration User Reviews and Ratings
- A Brief Tutorial On Machine Vibration and Bestseller Lists
- 5. Accessing A Brief Tutorial On Machine Vibration Free and Paid eBooks
 - A Brief Tutorial On Machine Vibration Public Domain eBooks
 - A Brief Tutorial On Machine Vibration eBook Subscription Services
 - A Brief Tutorial On Machine Vibration Budget-Friendly Options
- 6. Navigating A Brief Tutorial On Machine Vibration eBook Formats
 - ePub, PDF, MOBI, and More
 - A Brief Tutorial On Machine Vibration Compatibility with Devices
 - A Brief Tutorial On Machine Vibration Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A Brief Tutorial On Machine Vibration
 - Highlighting and Note-Taking A Brief Tutorial On Machine Vibration
 - Interactive Elements A Brief Tutorial On Machine Vibration
- 8. Staying Engaged with A Brief Tutorial On Machine Vibration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A Brief Tutorial On Machine Vibration
- 9. Balancing eBooks and Physical Books A Brief Tutorial On Machine Vibration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A Brief Tutorial On Machine Vibration
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine A Brief Tutorial On Machine Vibration
 - Setting Reading Goals A Brief Tutorial On Machine Vibration
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Brief Tutorial On Machine Vibration
 - Fact-Checking eBook Content of A Brief Tutorial On Machine Vibration

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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