

An Introduction to Time Waveform Analysis

In recent years there has been a resurgence in the use of time waveform analysis techniques. Condition monitoring personnel have now come to realize some of the limitations of the FFT process. Since many find the time waveform analysis process difficult and confusing the technique is rarely used to its full potential. The key to the successful utilization of time waveform data is knowing when to use it. This paper examines the limitations of the FFT process and identifies specific applications where enhancing FFT information with time waveform analysis is appropriate.

The paper also details in practical terms how to set up, acquire and manipulate time waveform data. Having discussed the acquisition of the data the paper continues to discuss the interpretation of the data including the time-frequency relationship, symmetry, and pattern recognition of common faults.

Biography

Timothy A. Dunton Vice President Product Development

Born and Educated in the UK, Tim spent 14 years with Shell Tankers UK, Ltd. as a marine engineer, serving on Oil and LNG tankers in a variety of positions including Cargo Engineer. After emigrating to Canada Tim brought his practical experience to IRD Mechanalysis as a Consulting Service Engineer, providing training, software support and on site analysis services throughout Canada.

In 1991 Tim joined Update International as a senior instructor where he conducted various vibration and skills related courses in both the public and in-plant arenas throughout the world. During his tenure at Update Tim assisted in development of several seminars in the subjects of vibration analysis, machinery skills and bearings. Tim was also responsible for upgrading several seminars and developing award winning multimedia interactive software. Tim is a regular speaker at various maintenance conferences throughout the world. Now with Universal Technologies, Tim's primary responsibility is in the area of multimedia product development but he continues to be active in the teaching arena.

Introduction

The analysis of time waveform data is not a new technique. In the early days of vibration analysis time waveform data was viewed on oscilloscopes and frequency components calculated by hand. The relationship between frequency and time is as follows:

$$f = 1/p$$

where: f is the frequency in Hz p is the period in seconds (the amount of time required to complete 1 cycle)

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