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In this article we will review the basic principles of vibration measurement and analysis in order to lay the foundation for capable fault diagnosis to be considered later. 2. Fundamentals of Vibration: A simple machine may be represented as in the diagram below having mass, stiffness and damping.

Fundamentals of Vibration Measurement and Analysis Explained

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Fundamentals of Noise and Vibration Analysis for Engineers, 2nd Edition Article in Noise Control Engineering Journal 55(2) · January 2007 with 382 Reads DOI: 10.3397/1.2721371

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Fundamentals of Noise and Vibration. The main objective of the course is to provide students with the skills and knowledge required to practise in the field of noise and vibration control technology. Readers do not need prior formal training in acoustics although a basic understanding of mechanics, fluid dynamics and applied mathematics is required.

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6 CHAPTER 1 FUNDAMENTALS OF VIBRATION. Galileo Galilei (1564 1642) is considered to be the founder of modern experimental science. In fact, the seventeenth century is often considered the century of genius since the foundations of modern philosophy and science were laid during that period.

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Section 1 FUNDAMENTALS OF NOISE, VIBRATION, AND HARSHNESS

It is well organized with chapters on mechanical vibrations, sound waves, interaction of sound and vibration, measurement and control of noise, signal processing, statistical energy analysis and pipe flow noise. It starts from fundamental principles, but moves quickly to applications with an excellent balance between theory and practice.

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