



# Practical Machinery Vibration Analysis and Predictive Maintenance (Practical Professional Books from Elsevier)

By Cornelius Scheffer Ph.D MEng, Paresh Girdhar B.Eng (MechEng)

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*Machinery Vibration Analysis and Predictive Maintenance* provides a detailed examination of the detection, location and diagnosis of faults in rotating and reciprocating machinery using vibration analysis. The basics and underlying physics of vibration signals are first examined. The acquisition and processing of signals is then reviewed followed by a discussion of machinery fault diagnosis using vibration analysis. Hereafter the important issue of rectifying faults that have been identified using vibration analysis is covered. The book also covers the other techniques of predictive maintenance such as oil and particle analysis, ultrasound and infrared thermography. The latest approaches and equipment used together with the latest techniques in vibration analysis emerging from current research are also highlighted.

- Understand the basics of vibration measurement
- Apply vibration analysis for different machinery faults
- Diagnose machinery-related problems with vibration analysis techniques

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## **Editorial Review**

### **From the Back Cover**

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### **About the Author**

Cornelius is one of those rare engineers who combines a deep understanding of the theoretical aspects of condition monitoring with a passion for the practical applications of the technology.

He has given numerous papers on condition monitoring at conferences and courses ranging from Africa to the USA, Belgium and France with excellent reviews. Cornelius has just completed his Ph.D, focussing on a tool wear monitoring machine for CNC machine tools using vibration signals as one of the inputs. He has been working in the vibration monitoring field for the past 5 years consulting to a wide variety of industries and has built up an extensive experience in practical techniques that work effectively.

Paresh currently works mainly in the rotating equipment field focussing on the petrochemical and polymer industries. He has considerable interest in maintenance management as well. His current field of activity encompasses condition monitoring, reliability enhancement, troubleshooting of rotating equipment which includes special purpose steam turbines from manufacturers such as ABB and GE and multistage centrifugal compressors (Elliot). He has also spent a considerable part of his career working with all types of fans, compressors, pumps, extruders, general purpose steam turbines, engines and motors. He has contributed extensively to IDC Technologies books on centrifugal pumps and vibration analysis.

## **Users Review**

### **From reader reviews:**

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