## 

Which information can be obtained by a vibration signal?

Signal Processing

Extracting information from vibration signals

Fourier Transform

## Rich information with high

computational cost

computational cost

Digital Filters

Simple information with low

# Data Clustering

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### KMeans

**Analysis** 

clusters of similarity

**PCA: Principal Component** 

- what do the clusters mean?

Dimensionality reduction:

Segregating datapoints into

Handling operational variability

# Anomaly Datastian

2D visualization of clustering results

# **Anomaly Detection**

Is everything "normal" or is there something off?

MVGD: Multi-Variate Gaussian
Distribution
How "normal" is the current

state of the machine?