

Rotating Machinery Condition Monitoring:

Lecture: M. Behzad & A. Rohani

1- Basic Rotor Dynamics

- Introduction
- Vibration Modes of Rotor
- Rotor Response to Imbalance Forces

2- Vibration Monitoring of Rotating Machinery

- Trends in Machinery Management Programs
- Trend in Vibration Monitoring Instrumentation
- Trend in the knowledge on Rotating Machine Dynamics
- Rotating Machine Vibration Monitoring and Data

3- Journal Bearings

- Introduction to Bearings
- Journal Bearing Characteristics
- Oil Whirl and Whip

4- Critically Assessment

- Definition (Vital, Critical, Secondary equipments)
- Criticality Assessment Methodology

5- Case Studies

