

Rotordynamics

April 4-7, 2022

Location: Embassy Suites San Antonio Airport hotel
10110 US Hwy 281 San Antonio, TX

SYLLABUS

Monday 4/4

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|---------------|---|
| 8:00 – 10:00 | What is Rotordynamics? |
| 10:00 – 10:15 | <i>Break</i> |
| 10:15 – 12:00 | Basic Lateral Rotordynamics Workshop 1&2 |
| 12:00 – 1:00 | <i>Lunch Break</i> |
| 1:00 – 3:00 | A Machinery Users Guide to Rotordynamics |
| 3:00 – 3:15 | <i>Break</i> |
| 3:15 – 5:00 | Understanding Journal Bearings |

Tuesday 4/5

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|---------------|---|
| 8:00 – 10:00 | Hydrodynamic Bearings Workshop |
| 10:00 – 10:15 | <i>Break</i> |
| 10:15 – 12:00 | Rotordynamics as a Tool for Solving Vibration Problems |
| 12:00 – 1:00 | <i>Lunch Break</i> |
| 1:00 – 3:00 | Practical Implementation of Torsional Analysis and Field Measurement |
| 3:00 – 3:15 | <i>Break</i> |
| 3:15 – 5:00 | Torsional Analysis and Case Histories |

Wednesday 4/6

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|---------------|---|
| 8:00 – 10:00 | Practical Modal Testing and Analysis Applied to Rotating Equipment Diagnostics |
| 10:00 – 10:15 | <i>Break</i> |
| 10:15 – 12:00 | RotorDynamics of Semi-Rigid and Overhung Turbomachinery |
| 12:00 – 1:00 | <i>Lunch Break</i> |
| 1:00 – 3:00 | Practical Stability Analysis and Practical Solutions |

Thursday 4/7

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|---------------|---|
| 8:00 – 10:00 | Using Rotordynamics to Solve Serious Machinery Vibration Problems |
| 10:00 – 10:15 | <i>Break</i> |
| 10:15 – 12:00 | Rotordynamic Case Histories-Time Transient Analysis and Non-Linear Rotordynamics |
| 12:00 – 12:30 | <i>Lunch Break</i> |
| 1:00 – 3:00 | A Solution for Variable Speed Vertical Pump Vibration Problems-Rotordynamics of Large Fans- Rotordynamics of Pumps, Evaluating-Correcting Subsynchronous |