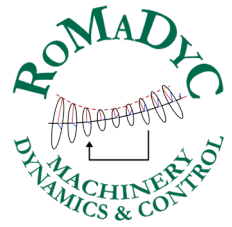




Washkewicz College
of Engineering



MCE 670/770

Turbomachinery Rotordynamics

Spring 2021

Prof. Jerzy T. Sawicki

Turbomachinery Rotordynamics introduces a collection of phenomena and related analysis techniques unique to high speed rotating shafts in turbomachinery. Topics include critical speeds, stability, gyroscopic effects, computational methods (finite element), effects of bearings incl. active magnetic bearings, diagnostics and monitoring. Applications include aerospace, energy generation, and other industrial uses.

Pre-requisites: MCE 371 and MCE 512, or with instructor permission.

Required software: MATLAB

Textbook: TBD

