Thrust bearing dynamics

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Background: limited dynamic investigations on grooved thrust bearings, supporting a rotor system in the axial direction; development and validation of a transient FDM axial rotordynamics code is ongoing

Objectives:
modeling project: (1) multi-region enhanced groove extension, (2) dynamic forcing analysis, (3) linear model comparison
experimental project: (1) numerical vibrational case study (2) shaker table validation

Thrust bearing

radial bearing