

Rotor

- Improve the error checking during data entering
- Add flexible disk option
- Add offset disk option
- Increase max station number from 202 to 502
- Increase number of material properties from 20 to 200
- Add liquid annual seal (Lomakin Effect)
- Add startup and shutdown transient lateral analysis
- Add material library
- Add MS Excel file Import and Export function
- Add foundation effect
- Add multiple layer (level) for the shaft elements
- Add more bearing types, coupled Reynolds equation with rotor equation in nonlinear transient analysis
- Add unit conversion function, save file in different units
- Allow overlapping the bearing stiffness into the critical speed map
- Add Amplification Factors in the response plots
- Improve the excitation data input for the torsional transient analysis
- Add periodic excitation in torsional time transient analysis
- Add non-linear coupling in torsional transient analysis
- Add modal stress plots for critical speeds
- Add stress plot in static deflection plot
- Add more plot types in torsional Campbell diagram
- Output animation gif files in additional to the bmp files
- Add magnetic unbalance for per GE Canada
- Add misalignment into steady state response analysis and transient analysis
- Fix all the graph screen size redraw problem
- Add steady state harmonic excitation analysis
- Add CG symbol in the plot if the CG Symbol is checked in the preference settings
- Add Steady Maneuvers Loads Analysis
- Display deflected disks in the undamped critical speed mode shapes
- Add flexible support effects in Static Deflection Analysis
- Add predicted response in Balancing Program
- Add Global re-Numbering for specified shaft and associated components
- Add more model checking features in modeling
- Remove AF=NA from the Bode Plot and Displacement Plot
- Add speed labels at Polar plot under Option-Settings
- Add unbalance magnitude in addition to the phase angle in the model plot – in Graphic Preference Settings
- Add setting for reverse phase angle display in Bode Plot like ADRE instrumentation, the phase angle draw reversely
- Add lateral vibration velocity and acceleration multipliers and Labels in Graphic Preference Settings

BePerf

- Introduce two coordinate systems in bearing analysis
- Add thrust bearings
- Add gas bearing
- Output K and C in different units
- Add Tapered Land Journal Bearing
- Add Worn Pocket Journal Bearing
- Add boundary conditions and bearing clearance checking features
- Add convert units in the bearing program
- Add multiple preloads for TPJ for a constant C_p
- Add speed labels in postprocessor - options – settings
- Add automatically generate K & C option in preference settings
- Add additional specified speeds in the analysis