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KISSsys function:

Check gear and bearing durability visually

1 Introduction

1.1 Functionality

Sometimes it may be useful to check the “weakest” components visually to be highlighted in 3DView. This check can be done for the gear safety factors, for the bearing lifetimes or both on same time. This functionality will check all the components from the model and compares the calculated results for the required values. If any of the components will have value lower than required, it will be highlighted in red color in the 3DView and all components passing the check are transparent. Pressing “Refresh” will set 3DView back to the previous settings. (colors and transparencies)

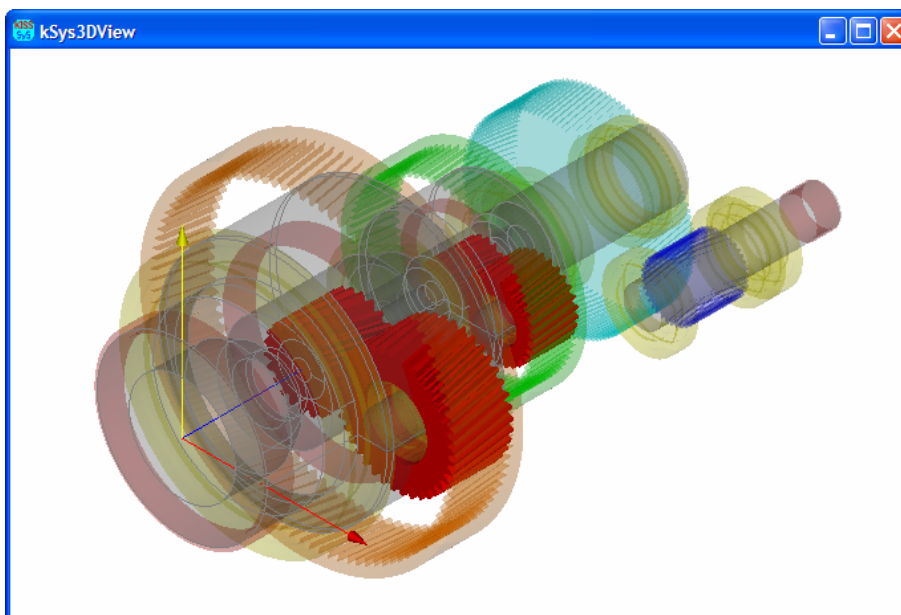


Figure 1.1-1 Example of the check (weakest components in red)

1.2 “VisualCheck”

Note that this function will only help to see where the critical components are, it doesn't give any information about why this component may fail. It may also be easier to look at the model instead of trying to find out smallest numbers from the list of e.g. all calculated gear safety factors.

Create new function in one of the user interface tables and copy – paste whole course code directly to it. When function is called choose desired parts to be checked from the list.

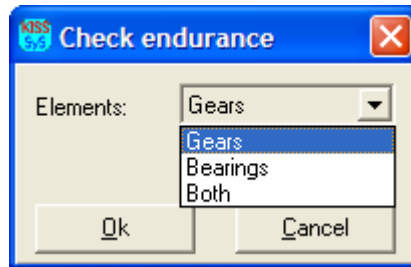


Figure 1.2-1 Dialog to select parts to be checked

2 Function

2.1 Course code

Course code of this function is not explained here because of complexity. If you are interested to know code in details, please contact KISSsoft AG.

2.2 Where to find the course code?

You are able to copy paste code from the referenced txt file.