How to output the system matrices fro, DyRoBeS-Rotor

$$\boldsymbol{M}\,\ddot{\boldsymbol{q}}(t)+\left(\boldsymbol{C}+\Omega\boldsymbol{G}\right)\dot{\boldsymbol{q}}(t)+\boldsymbol{K}\,\boldsymbol{q}(t)=\boldsymbol{Q}\left(t\right)+\boldsymbol{Q}_{nb}(\dot{\boldsymbol{q}},\boldsymbol{q},t)$$

1. Start Rotor
2. Open an existing project file (say, fileName.rot), Project – Open
3. Go to Model – Model Summary – Lateral Vibration
4. An ASCII file named filename.RBM is created in the same folder as filename.rot

This RBM file contains the system matrices. The output format is listed below:

```
C *** Generate Speed Independent System Matrices and Vectors

      WRITE(33,*) NDOF    ! Number of degrees of Freedom
      DO I=1,NDOF
         DO J=1,NDOF
         WRITE(33,3333) (SK(I,J),J=1,NDOF)    ! K
      END DO
C
      DO I=1,NDOF
         DO J=1,NDOF
         WRITE(33,3333) (SC(I,J),J=1,NDOF)    ! C
      END DO
C
      DO I=1,NDOF
         DO J=1,NDOF
         WRITE(33,3333) (SG(I,J),J=1,NDOF)    ! G
      END DO
C
      DO I=1,NDOF
         DO J=1,NDOF
         WRITE(33,3333) (SM(I,J),J=1,NDOF)    ! M
      END DO
C
      WRITE(33,*) NSTN             ! Number of Stations
      DO I=1,NSTN
          K1 = JENTRY(I,1)
          K2 = JENTRY(I,2)
          K3 = JENTRY(I,3)
          K4 = JENTRY(I,4)
         WRITE(33,*) I, K1, K2, K3, K4   ! Matrix Entry
      END DO
C
 3333 FORMAT(1X,100(G15.7,1X))
```