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Discussion

## Comments on “Accuracy in the identification of a generator thermal bow”

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In their paper [1], Pennacchi and Vania use Eq. (1) as their starting point. This standard equation does not include geometrical deformations such as shaft bows. Consider a very low running speed without mass and damping forces and no external forces. In this case Eq. (1) predicts no vibrations. However, different axial positions of the shaft will still move in the radial direction. See e.g. [2] or [3].

### References

- [1] P. Pennacchi, A. Vania, Accuracy in the identification of a generator thermal bow, *Journal of Sound and Vibration* 274 (2004) 273–295.
- [2] P.S. Keogh, P.G. Morton, The dynamic nature of rotor thermal bending due to unsteady lubricant shearing within a bearing, *Proceedings of the Royal Society of London Series A* 445 (1994) 273–290.
- [3] B. Larsson, Journal asymmetric heating, Part II: alteration of rotor dynamic properties, *Journal of Tribology* 121 (1999) 164–168.

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