

عنوان مقاله:

Analysis of the vibrated response of an unbalance rotor having a static bending to the rotation speed in different situation

محل انتشار:

چهارمین کنفرانس بین المللی مهندسی و علوم انسانی (سال: 1395)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Hamid bohlooli - *Department of Mechanical Engineering, Birjand Branch, Islamic Azad University, Birjand, Iran*

Ali safamanesh - *Department of Mechanical Engineering, Young Researchers and Elites Club, birjand branch, Islamic azaduniversity, birjand, iran*

خلاصه مقاله:

In the present paper, a surface rotor (Jeffcott) with having damping in bearings, has been considered as an unbalance rotor. Jeffcott rotor is a simplified type of real rotors, That its consideration helps us to have a simple and qualitative understand of some important dynamic behaviors in rotors. The rotor governing equations have been obtained and the response of system to unbalancing, including amplitude and phase response have been presented in different charts. Also, the rotor governing equations when it has the static bending have determined and The affect of bending on the system response considering its position has been investigated.

کلمات کلیدی:

Jeffcott rotor, System response, Unbalancing

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<https://civilica.com/doc/575877>

