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#### **SDI Review Form 1.6**

| Journal Name:            | Physical Science International Journal  |
|--------------------------|---|
| Manuscript Number:       | Ms_PSIJ_22868   |
| Title of the Manuscript: | Spectrum Diagnostics of a Damaged Differential Planetary Gear during Various Operating Conditions |
| Type of the Article      |   |

## **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of 'lack of Novelty', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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### PART 1: Review Comments

|                                  | Reviewer's comment   | Author's comment (if agreed with reviewer,<br>correct the manuscript and highlight that part in<br>the manuscript. It is mandatory that authors<br>should write his/her feedback here) |
|----------------------------------|--|--|
| Compulsory REVISION comments     | This paper introduces spectrum diagnostics<br>approach to planetary gear. Joint time-frequency<br>analysis to transient start-up condition is carried out<br>to detect the influence from backlash and chipped<br>gear. This spectrum diagnostics is convenient for<br>engineering application. However, the detail of multi-<br>body kinematic formulations in the section 2 and<br>modelling in section 3 are not introduced. The<br>working condition of dynamic response in section 4<br>and 5 are suggested to be presented. Moreover,<br>experiment is suggested to be done and compared<br>with the simulation results. |  |
| Minor REVISION comments          |  |  |
| <b>Optional/General</b> comments |  |  |

### **Reviewer Details:**

| Name:                            | Lirong Wang  |
|----------------------------------|--|
| Department, University & Country | Mechanical Engineering, State University of New York at Stony Brook, USA |