



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_5799
Title of the Manuscript:	Magnetic Fluid Lubrication of Finite Journal Bearing; 3-D Analysis Using MATLAB
Type of the Article	Research Paper

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 <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<u>Compulsory</u> REVISION comments	The authors should estimate different steady-state characteristics like non-dimensional load, attitude angle, friction variable etc. And compare the results with conventional bearing. At present only pressure distribution has been calculated which does not give much insight to the situation. Further the method of solution has not been mentioned in the paper. MATLAB is a software which can be used to solve different problems by choosing appropriate solver, so, which solver has been used?	Our interest was only to obtain a 3-D representation of the pressure profile accordingly the method was developed. We have been trying but we are yet to develop a program for the other important parameters. The "Finite Difference Method" has been adopted.
<u>Minor</u> REVISION comments	Literature review is very poor. I could not understand why the authors have cited reference 1 which deals with porous bearing, when the present work is not covering porous bearing. Authors should launch a rigorous literature search to find works which deal with non-Newtonian fluid as lubricant (power-fluid, magnetic fluid etc.)	We have replaced the reference pointed out by the reviewer.
<u>Optional/General</u> comments		