



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_26410
Title of the Manuscript:	A Hydrodynamic Model of Flow in a Bifurcating Stream, Part 1: Effects of Bifurcation Angle and Magnetic Field
Type of the Article	Original Research 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
<u>Compulsory</u> REVISION comments	<p>1. The introduction section is far failed to express the aim of this study and has to be reworked. It is crucial to answer the following questions:</p> <ol style="list-style-type: none"> What is new in this study? What do you show in this study? How do those previous research works impact your work? <p>2. The introduction should provide a clear statement of the problem, the relevant literature on the subject, and the proposed approach or solution. It is be understandable to colleagues from a broad range of scientific disciplines. For that purpose I would like to add the following recent papers on MHD pipe flow which can help to enhance the introduction section:</p> <ol style="list-style-type: none"> Numerical Simulation of Dean Number and Curvature Effects on Magneto-Bio-Fluid Flow through a Curved Conduit. Proceedings of the Institution of Mechanical Engineers Part H Journal of Engineering in Medicine 11/2013; 227(11):1155-1170. Spectral Numerical Simulation of Mageneto-Physiological Laminar Dean Flow. Journal of Mechanics in Medicine in Biology 02/2014; 14(4). ID-1450047 A numerical study of MHD laminar flow in a rotating curved pipe with circular cross section". Open Journal of 	<p>COMPULSORY</p> <p>(1)The motivation is quite stated now. See lines 84-90.</p> <p>(2)The introduction has been restructured and improved upon. See lines 84-113.Check for further improvement.</p> <p>(3)We have gone through and made some corrections.Check for additional refinement.</p> <p>(4)Physical explanations for the observed results and implications are already stated, but now modified. See lines 299-329</p> <p>(5)The results have been compared within the scope of the literatures cited. See lines 296-313.</p> <p>(6) The conclusion section has been expanded to include this. Check lines 334-336.</p>



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	<p>Fluid Dynamics. 5/2015; 121-127.</p> <p>d. Magnetic Effects on Direct Numerical Solution of Fluid Flow through a Curved Pipe with Circular Cross Section" European Journal of Scientific Research 06/2013; 103(3):343-361.</p> <p>e. Effects of Dean Number and Curvature on Fluid Flow through a Curved Pipe with Magnetic Field. Procedia Engineering. 12/2013; 56:245-253.</p> <p>f. Numerical Analysis of Magnetohydrodynamics Flow in a Curved Duct. International Journal of Scientific and Engineering Research 07/2013; 4(7):607-617.</p> <p>g. Thermal diffusion effect on unsteady viscous MHD micropolar fluid flow through an infinite plate with hall and ion-slip current. Procedia Engineering. 2015; 105:160-166.</p> <p>3. Language has to be reworked in some extend. Especially comma placement (which can enhance the understanding!) and the use of articles. There are many typing errors which need to be take care.</p> <p>4. In 'Result and Discussion' authors have noted observations. But it is suggested that to provide physical explanations of all obtained results which can enrich the quality of the paper.</p> <p>5. The present results of this manuscript does not compare with any previous results. It is highly recommended to compare the present results with any other previous study.</p> <p>6. In conclusions please provide a general comment on the obtained results. For example: how can this work help in</p>	
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	future researchers to contribute further knowledge?	
<u>Minor</u> REVISION comments	1. Please redraw all the figures in colour 2. Nomenclature should be added.	(1)This is done. See Figures 2- Figure 7. (2)This is done. See lines 17-64.
<u>Optional/General</u> comments		Thanks for the list of literature suggested. It has help us.