**Reviewer 1**

**Corrections by Authors**

Title: **Dynamic Analysis of Viscoelastic Circular Diaphragm of a MEMS Capacitive Pressure Sensor using Modified Differential Transformation Method**

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| **Comments by Reviewers** |  |
| **Reviewer 1** | **Actions and Response by Authors** |
| 1. The introduction is not clear, it has to be rewritten in a professional way and point to the main contribution. Moreover, the novelty and the originality have to be pointed clearly. | The **INTRODUCTION** has been reconstructed.  The novelty and originality have been highlighted in yellow background.  See the new **MANUSCRIPT** |
| 1. It will be more a constructive introduction for the readers if the authors discuss briefly the possibility of using Legendre Polynomials and use spectral element method (while referring to the following references) to solve equation 7: a-"A spectral element method for the solution of magnetostatic fields" doi:10.3906/elk-1605-6 b- "On the Accuracy of Spectral Element Method in Electromagnetic Scattering Problems " DOI: 10.7763/IJCTE.2014.V6.916 c- "On the application of the spectral element method in electromagnetic problems involving domain decomposition" doi:10.3906/elk-1511-115 | The discussion on the “possible of use of Legendre Polynomials and use spectral element method in electromagnetic problems” is very good in the study, but the authors tried to guide the readers on the main focus of the study which is the use of “viscoelastic material as a possible replacement for the conventional elastic material in circular diaphragm of a Micro-Electro-Mechanical System”  In addition, reviewing one or two papers on the suggested area may not be enough justification for introducing it. It will require a whole paragraph and not less than five (5) papers to really discuss it. This may shift the main focus of the study and defeat the purpose of the study. |
| 1. The authors must improve from the presentation of the paper, for instance do you really need to write equations No. 2, 3 and 4 ? They are basic simple relations | Equations No. 2, 3 and 4 have been removed  And the numbering has been consequently corrected  The new renumbered Equations have been highlighted.  See the new **MANUSCRIPT** |
| 1. There is no need to include Figures from 6 to 9, instead, only one figure should be included (can be fig9) and zoom-in a portion from the figure to realize the oscillations. | It has been done.  The Figures have been reduced because different time regimes are shown on all the graphs all starting from t = 0 for the same result.  See Figure 6 shows t = 0 to t = 0.1  See Figure 7 shows t = 0 to t = 1 |
| 1. The authors must show the oscillations of the diaphragm versus time. | It has been done.  See Figures 8  See the new **MANUSCRIPT** |
| 1. While applying FDM, the authors must clearly justify their choices for the time step and spatial step. | It has been done  See Equations 31 – 34 in the new MANUSCRIPT    The time and spatial steps used for FDM in the study were based on the dimensionless quantities which vary between [0,1] |