

- Effect of B/D ratio shows only length of plate increases that time frequency go on decreasing. But for single material steel plate and five material FG plate certain length frequency increases and suddenly decreases only for (SSSS) ,(CCCC) condition.
- In static analysis equivalent stiffness is increases for (SSSS), (SSFF) condition and decreases for (CCCC) condition.

References

- [1] Modal Analysis of Simply Supported Functionally Graded Square Plates, by Kevin Pendley, Rensselaer Polytechnic Institute.
- [2] Ghannad S.A.M. Pour and Alinia M.M., (2006) "Large deflection behavior of functionally graded plates under pressure loads." Journal of Composite Structures, Vol.75, pp. 67-71.
- [3] Singha M.K., Prakash T. and Ganapathi M. (2011) "Finite element analysis of functionally graded plates under transverse load." Journal of Composite Structures, Vol.47, pp. 453-460.
- [4] Zenkour A. M. (2006) "Generalized shear deformation theory for bending analysis of functionally graded plates." Journal of Applied Mathematical Modeling, Vol. 30, pp. 67-84.
- [5] Jha D. K., Kant T. and Singh R. K. (2013) b "Free vibration response of functionally graded thick plate with shear and normal deformation effects." Journal of Composite Structures, Vol. 96, pp. 799-823.