



LETTERS TO THE EDITOR



COMMENTS ON “DIFFERENTIAL QUADRATURE METHOD FOR VIBRATION ANALYSIS OF SHEAR DEFORMABLE ANNULAR SECTOR PLATES”

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The authors are to be congratulated for a very thorough study [1] which certainly adds to the ever-growing literature on the application of the differential quadrature method (DQM).

The purpose of this letter is to point out an erroneous statement in the paper. On p. 336, the following sentence appears; “However, this powerful method has not been tested to solve the vibration analysis of sector plates”. Here, of course, the “powerful method” refers to the DQM. However, the present writers have previously applied DQM in two different ways to the vibration analysis of thin sectorial plates [2–4]. The first two of these were actually references [35, 36] in reference [1]. It is interesting to note that in reference [2] the sectorial plate planform was more general than that considered in references [1, 3, 4], because the centers of curvature of the inside and outside curved boundaries were permitted to be different.

The present writers acknowledge that the work of reference [1] extended that of reference [2–4] in that the former considered shear deformable (Mindlin) plates rather than thin plates.

REFERENCES

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4. M. MALIK and C. W. BERT 2000 *Journal of Sound and Vibration* **230**, 949–954. Vibration analysis of plates with curvilinear quadrilateral planforms by DQM using blending functions, to appear.