

⁸Tricomi, F., *Integral Equations*, Wiley Interscience, New York, 1957, pp. 141-143.

⁹Conway, H. D. and Dubil, J. F., "Vibration Frequencies of Truncated Cone and Wedge Beams," *Journal of Applied Mechanics*, Vol. 32, Series E, No. 4, Dec. 1965, pp. 932-934.

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Reply by Author to A. H. Flax

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FLAX has used another perturbation theory, first presented by Rayleigh, for determining the natural frequencies of a beam with variable thickness. He obtains the very interesting result in Eq. (11), which is the fundamental frequency of a linearly tapered beam and is correct to within second order of the taper ratio α . The results obtained by using Eq. (11) do compare quite favorably with those of Ref. 1 and the exact results of Conway and Dubil.²

The selection of the simple support conditions and the particular examples (linearly tapered beam and plate) was merely a matter of numerical computation convenience and in no way limits the perturbation method of Ref. 1. Furthermore, it should be mentioned that the results displayed in Ref. 1 were obtained to within second order of a small perturbation parameter for both frequency and mode shape of a beam and plate. In particular, the fundamental mode shape of a linearly tapered plate is given in Fig. 2 and Eq. (19) of Ref. 1.

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Index category: Structural Dynamic Analysis.

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Errata

Ionospheric Doppler Sounder for Detection and Prediction of Severe Storms

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PROFESSOR Hung's title was inadvertently omitted from the footnotes for this Technical Note. The footnotes should have read:

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Index categories: Sensor Systems; Wave Motion and Sloshing.