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Reply by Author to A.H. Flax

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THE author appreciates the interest of A.H. Flax in this work. The analysis made in Ref. 1 is strictly true only for a panel exposed to supersonic flow on one of its surfaces. In the Note, g_T is the total damping coefficient and it is a combination of structural damping and aerodynamic damping coefficients, as defined in Ref. 2. In the author's paper, it has been shown that the addition of linear springs support to the panel can be interpreted as if only g_T of the basic panel is changed. Thus, if one knows the flutter velocity parameter λ variation with g_T for a panel with no elastic support, then it is possible to get a new λ for a panel resting on linear elastic foundation from the results of basic panel without doing any extra calculations.

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Flax has given an alternate way of showing the effect of elastic foundation on the flutter of a panel by changing g_T such that same λ will result. Either way can be used and appears equally valid.

References

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Errata

Perturbation Method for Transonic Flows about Oscillating Airfoils

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IN the subject paper, reference is made to "bold-face type" and "underlined terms." Regrettably, such typography did not appear. The terms referred to are all those where "***k***" appears in Eqs. (3-5, 10, and 14).

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