

Pilipchuk, V. N.

Analytical study of vibrating systems with strong non-linearities by employing saw-tooth time transformations. (English) [Zbl 1232.70015](#)
J. Sound Vib. 192, No. 1, 43-64 (1996).

Summary: A special saw-tooth temporal transformation technique is formulated. It is simple enough to allow analytical computation of strongly non-linear free and forced dynamic responses, but, at the same time, can be applied to the analysis of general classes of non-linear problems.

MSC:

- [70K25](#) Free motions for nonlinear problems in mechanics
- [70-08](#) Computational methods for problems pertaining to mechanics of particles and systems
- [70K28](#) Parametric resonances for nonlinear problems in mechanics

Cited in **10** Documents

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