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ENVELOPES AND PRODI'S THEOREM AT SINGLE AMPLITUDE NON-HARMONIC AND NON-STURM'S OSCILLATIONS OF THE SECOND ORDER

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Abstract

In this paper, we emphasize characteristics of single-amplitude oscillations which do not exist at double-amplitude solutions of the second order equations of oscillation. This primary refers to identity of general and canonical form of equation, Prodi's theorem, existence of envelopes for both families of fundamental integral as well as to Kepler's meaning regarding the amplitudes and frequencies.

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