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**The volumetric parametric resonance in magnetizable medium.** (English) Zbl 1363.76078  
Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh. 81, 20-35 (2015).

Summary: The stability of the stationary states of a magnetizable medium at the parametric excitation of a magnetic field is studied. The parameters of excited acoustic wave and the influence of an oscillating magnetic field on the dispersion of sound and its propagation velocity are determined using asymptotic and numerical methods.

**MSC:**

76W05 Magnetohydrodynamics and electrohydrodynamics

76Q05 Hydro- and aero-acoustics

**Keywords:**

parametric resonance; oscillating magnetic field