

Second Harmonic Resonance on the Surface of a Magnetohydrodynamic Fluid Column

Doo-Sung Lee

Department of Mathematics Education, College of Education, Konkuk University,
93-1, Mojin-Dong, Kwangjin-Gu, Seoul, Korea

Reprint requests to Prof. D.-S. L.; E-mail: dslee@kkucc.konkuk.ac.kr

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The method of multiple scales is used to analyse the second harmonic resonance of weakly non-linear progressive waves on the surface of a fluid column in the presence of a magnetic field. The dynamical equations governing the second harmonic resonance are obtained. Numerical results are given graphically.