

Yang, J., **Zhou, H.**, Acoustoelectric Amplification of Piezoelectric Surface Waves, Acta Mechanica, 172, 2004, pp. 113–122

Abstract

We study the propagation of anti-plane surface waves in a piezoelectric ceramic half-space carrying a thin layer of a semiconducting material. Two-dimensional equations for the extensional motion of a thin membrane of piezoelectric semiconductors are derived to model the semiconductor layer. A surface wave solution is obtained.

Keywords

Surface wave, Acoustoelectric amplification