

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



SSS027-09

Room:105

Time:May 22 14:15-14:30

Computation of Rayleigh wave dispersion on anisotropic media by compound matrix method

Tatsunori Ikeda^{1*}, Toshifumi Matsuoka¹

¹Kyoto University, Faculty of Engineering

The surface wave dispersion on isotropic media can be calculated by the Haskell method. However, it is well known that the phase velocity in the high frequency cannot be calculated for computing error. As the calculation method to overcome this problem, the compound matrix method was proposed.

In this study, we calculated Rayleigh wave dispersion on anisotropic media by applying the compound matrix method. In conclusion, the compound matrix method can be available for calculation of Rayleigh wave dispersion in the higher frequency than the Haskell method.

Keywords: dispersion curve, anisotropic media, compound matrix method, surface waves