Bollettino di Geofisica Teorica e Applicata

An International Journal of Earth Sciences

About the Journal

To Authors

Subscriptions

Forthcoming

Search the Journal

Search

Testing of the inverse problem with constant-background in the presence of damping in a single layer

F. D. Zaman, K. Masood and Z. Muhiameed

Abstract

A one-dimensional inverse problem in a medium with constant-background properties is studied in the presence of damping. The inversion formula is obtained using Born s approximation and high frequency assumption. This formula is tested for a medium which contains a layer giving rise to a single step-like change in the wavespeed and damping parameters. The effects of background damping and of bandlimited data are also discussed by taking different values of background damping and bandlimiting.

back to table of contents