

The goal of this bachelor thesis is to offer an overview on techniques of seismic tomography, their history and general usage. It's focused mainly on description of pioneering efforts in building mathematical tools of tomography and their application in geophysics. Methods mainly discussed are: Herglotz - Wiechert inversion, first numerical studies like ACH teleseismic method, Aki & Lee method of local sources inversion and early global mantle velocity studies. There are also discussed some shortcomings of tomography models and their influences on interpretation of results.