

Full Seismic Waveform Modelling And Inversion

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Full Seismic Waveform Modelling And

Full-waveform inversion (FWI) is a powerful technique to build earth velocity models or estimate high-resolution medium parameters at both exploration and global scales (Tarantola 1984;Pratt 1999...

(PDF) Full Seismic Waveform Modelling and Inversion

Recent progress in numerical methods and computer science allows us today to simulate the propagation of seismic waves through realistically heterogeneous Earth models with unprecedented accuracy. Full waveform tomography is a tomographic technique that takes advantage of numerical solutions of the elastic wave equation.

Full Seismic Waveform Modelling and Inversion (Advances in ...

Full Seismic Waveform Modelling and Inversion. Gives a comprehensive account of full waveform tomography. Develops and describes state-of-the-art methodologies covering all aspects of full waveform tomography. Includes methods for the numerical solution of the elastic wave equation. see more benefits.

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Introduction. Recent progress in numerical methods and computer science allows us today to simulate the propagation of seismic waves through realistically heterogeneous Earth models with unprecedented accuracy. Full waveform tomography is a tomographic technique that takes advantage of numerical solutions of the elastic wave equation.

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The propagation of seismic waves in the Earth can be modelled with the elastic wave equation $\rho \ddot{u}(x, t) - \nabla \cdot \sigma(x, t) = f(x, t)$, $x \in G \subset \mathbb{R}^3$, $t \in [t_0, t_1] \subset \mathbb{R}$ (2.11) that relates the displacement field u in the Earth $G \subset \mathbb{R}^3$ to its mass density ρ , the stress tensor σ and an external force density f .

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Full waveform inversion (FWI) is non-linear data-fitting procedure that aims at obtaining detailed estimates of subsurface properties from seismic data, which can be the result of either passive or active seismic experiments. Given an initial guess of the subsurface parameters, (a model) the data are predicted by solving a wave-equation.

Full-Waveform Inversion | Seismic Laboratory for Imaging ...

Seismic waves are modelled by a partial differential wave equation (PDE) where the input is medium parameters and a source signature, and the solution is a wavefield. Two wave equation solves are needed to implement the Jacobian of the forward modelling operator, as defined in full-waveform inversion, mentioned by (Leeuwen, 2012). Depending on the particular algorithm for minimizing the FWI misfit function, further PDE solves may be required to compute its second derivative (the Hessian).

Modelling | Seismic Laboratory for Imaging and Modeling

The results of all methods are integrated in a subsurface model subsequently used for seismic modeling and full-waveform-inversion (FWI). The extensive investigation reveals, that the anomaly...

DEVELOPMENT OF SEISMIC MODELLING, IMAGING AND FULL ...

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Full waveform inversion is a novel variant of seismic tomography that is characterised by the numerical solution of the equations of motion, the exploitation of full waveform information and the iterative improvement of the tomographic images that accounts for non-linearity in the relation between model parameters and synthetic data.

Workshop on Geophysical Data Analysis and Assimilation

Full Waveform Inversion (FWI) is a methodology that seeks to find high-resolution, high-fidelity velocity models of the subsurface capable of matching individual synthetic seismic waveforms with an original raw field dataset.

Full Waveform Inversion (FWI) | PGS

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Full Seismic Waveform Modelling And Inversion - (Advances ...

FWI uses a two-way wave equation to invert for high-resolution velocity and anisotropy models derived from seismic data. Mitigate cycle skipping and improve model accuracy Complying with the half-wavelength criteria is a fundamental challenge for FWI.

Full-Waveform Inversion | Schlumberger

Full-Waveform Inversion (FWI) derives high-resolution velocity models by minimizing the difference between observed and modeled seismic waveforms.

CGG:

Over the past 15 years, full-waveform inversion (FWI) has emerged as a key methodology for developing these models for petroleum industry applications; although FWI has recently been employed on a limited number of problems ranging from the geotechnical to whole-earth scales, its application at the shallow crustal scale (i.e., sedimentary basin) suitable for ground motion simulations has been limited outside of industry studies.