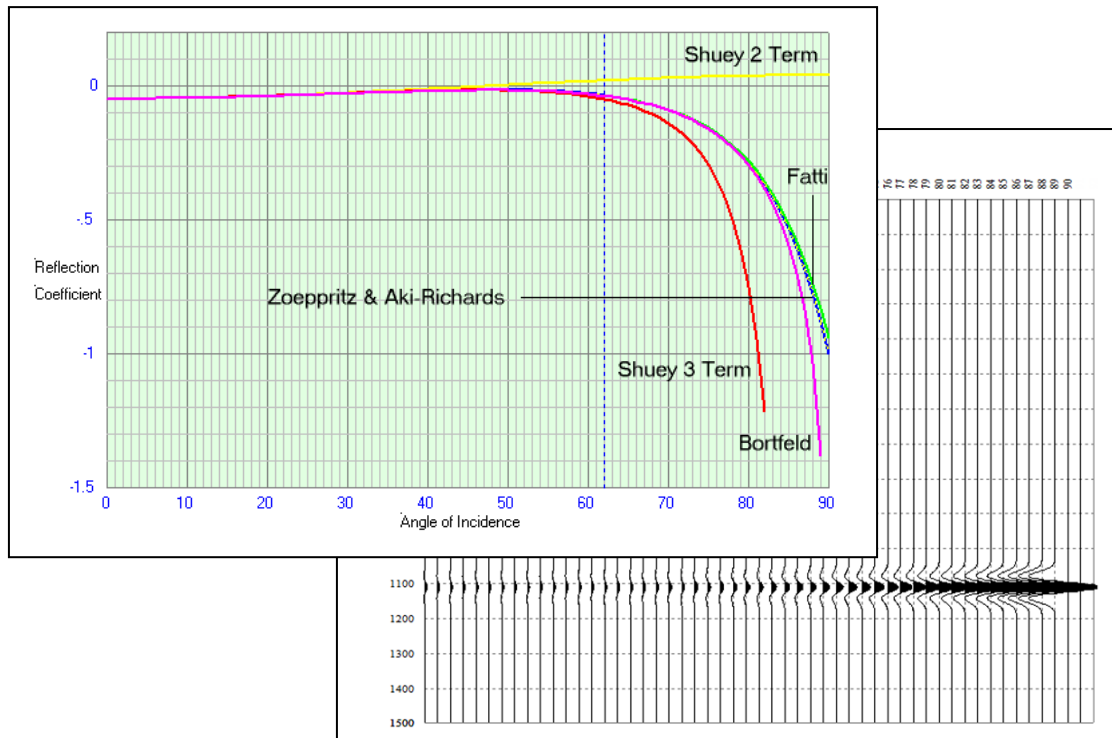


GP-412: Gassmann Fluid Substitution and AVO/AVA Modeling



Who Should Attend

Geophysicists, Petrophysicists and Reservoir Engineers

Overview

The course starts with Zoeppritz energy partition equations, followed by its various approximations. Discusses in detail Rock physics parameters, Gassmann Fluid substitution modeling, Amplitude Versus Offset/Angle and finally presents a workflow for AVO response of various Gassmann Fluid substitution scenarios.

Contents

- Zoeppritz Equations
- Approximations to Zoeppritz Equations
- Understanding Rock Physics Parameters
- Gassmann Fluid Substitution Theory
- AVO/AVA Theory and Classes
- AVO Modeling
- Computational Workflow