Z-Design 3D ray tracing for TesserACT

Automated aperture computation



The success of any 3D survey requires that the area of interest is adequately illuminated, and sufficient aperture is recorded to meet imaging objectives.

Z-Design is a seamlessly integrated module of TesserACT that delivers fast, accurate 3D ray tracing assuring reliable and efficient survey designs



👿 Model

Arbitary 2D line

1000 150 2000

3500 4000 4500

650 7500

Z-Design is a collaboration between ACTeQ and Z-Terra. The 3D ray tracing engine was developed over many years by Mihai Popovici and his Z-Terra team. Conventional reflections and diving waves are supported..







Z-Design features a powerful 3D visualization tool for velocity models, horizons and surface culture data. Data can be imported in most standard formats such as SEG-Y, text and shape files.

Additional modeling and illumination study options from ACTeQ

Certain very complex geologic settings may require more rigorous analysis , and ACTeQ is pleased to offer a range of options



References :

(1) "Simulating large scale streamer and OBN acquisition over subsalt targets ...", Ridyard et al. First Break Nov.2022
(2) "Rapid OBN survey design using a wave equation illumination study." Gruffeille et al. First Break Nov. 2020

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