

Contents

Acknowledgments	iii
Policy on Proprietary Material	v
Introduction	vii
Velocity Analysis and Parameter Estimation	
Numeric implementation of wave-equation migration velocity analysis operators (CWP-587) <i>P. Sava & I. Vlad</i>	1
Apparent horizontal displacements in time-lapse seismic images (CWP-588) <i>D. Hale, B. Cox & P. Hatchell</i>	25
Interval anisotropic parameter estimation using velocity-independent layer stripping (CWP-589) <i>X. Wang & I. Tsvankin</i>	35
Seismic modeling and analysis of the prototype heated nuclear water storage tunnel, Yucca Mountain, NV (CWP-590) <i>S. Smith & R. Snieder</i>	47
Image Processing	
Detection of channels in seismic images using the steerable pyramid (CWP-591) <i>J. Mathewson & D. Hale</i>	55
Defining regions in seismic images by flattening (CWP-592) <i>D. Parks, W. Harlan & D. Hale</i>	67
Compact finite-difference approximations for anisotropic image smoothing and painting (CWP-593) <i>D. Hale</i>	75
Anisotropic amplitude and attenuation analysis	
Effective reflection coefficients for curved interfaces in TI media (CWP-594) <i>M. Ayzenberg, I. Tsvankin, A. Aizenberg & B. Ursin</i>	85
Reflection coefficients in attenuative anisotropic media (CWP-595) <i>J. Behura & I. Tsvankin</i>	111
Estimation of interval anisotropic attenuation from reflection data (CWP-596) <i>J. Behura & I. Tsvankin</i>	123

Imaging

Angle-domain elastic reverse-time migration (CWP-597)	
<i>J. Yan & P. Sava</i>	129
Elastic wavefield separation for VTI media (CWP-598)	
<i>J. Yan & P. Sava</i>	143
Seismic imaging with Wigner distribution functions (CWP-599)	
<i>P. Sava & O. Poliannikov</i>	151
Micro-earthquake monitoring with sparsely-sampled data (CWP-600)	
<i>P. Sava</i>	167
Range and resolution analysis of wide-azimuth angle decomposition (CWP-601)	
<i>G. Melo & P. Sava</i>	175
Modeling and imaging with isochron rays (CWP-602)	
<i>E.F.F. Silva & P. Sava</i>	193
Accelerating wavefield extrapolation isochron-ray migration (CWP-603)	
<i>E.F.F. Silva & P. Sava</i>	205
Asymptotically true-amplitude one-way wave equations in t : modeling, migration and inversion (CWP-604)	
<i>N. Bleistein, Y. Zhang & G. Zhang</i>	221

Interferometry

Source distribution in interferometry for wave and diffusion (CWP-605)	
<i>Y. Fan & R. Snieder</i>	251
Target-oriented interferometry: Imaging internal multiples from subsalt VSP data (CWP-578P)	
<i>I. Vasconcelos, R. Snieder & B. Hornby</i>	265
Representation theorems in perturbed acoustic media: Applications to interferometry and imaging (CWP-584P)	
<i>I. Vasconcelos & R. Snieder</i>	281
Seismic and electromagnetic controlled-source interferometry in dissipative media (CWP-606)	
<i>K. Wapenaar, E. Slob & R. Snieder</i>	297
The extraction of the Green's function and the generalized optical theorem (CWP-607)	
<i>R. Snieder, F.J. Sánchez-Sesma & K. Wapenaar</i>	311
The cancellation of spurious arrivals in Green's function extraction and the generalized optical theorem (CWP-608)	
<i>R. Snieder, K. van Wijk & M. Haney</i>	317