

# Testing SEG bibliography from 5001 to 6000

Sergey Fomel

November 12, 2001

## References

- Abdelrahman, E.-S. M., and El-Araby, H. M., 1993a, Shape and depth solutions from gravity data using correlation factors between successive least-squares residuals: *Geophysics*, **58**, no. 12, 1785–1791.
- Abdelrahman, E.-S. M., and El-Araby, T. M., 1993b, A least-squares minimization approach to depth determination from moving average residual gravity anomalies: *Geophysics*, **58**, no. 12, 1779–1784.
- Abdelrahman, E.-S. M., and Sharafeldin, S. M., 1995a, A least-squares minimization approach to depth determination from numerical horizontal gravity gradients (short note): *Geophysics*, **60**, no. 04, 1259–1260.
- Abdelrahman, E.-S. M., and Sharafeldin, S. M., 1995b, A least-squares minimization approach to shape determination from gravity data (short note): *Geophysics*, **60**, no. 02, 589–590.
- Abdelrahman, E.-S. M., and Sharafeldin, S. M., 1997, A least-squares approach to depth determination from self-potential anomalies caused by horizontal cylinders and spheres: *Geophysics*, **62**, no. 01, 44–48.
- Abma, R., and Claerbout, J., 1995, Lateral prediction for noise attenuation by t-x and F-X techniques: *Geophysics*, **60**, no. 06, 1887–1896.
- Agarwal, B. N. P., 1997, Discussion on 'Interpretation of two dimensional magnetic bodies using Hilbert transforms', by Mohan, N. L., Sundararajan, N., Rao, S. V. S. with reply from author (geo-52-3-376-387): *Geophysics*, **62**, no. 2, 690–691.
- Aina, A., Olorunfemi, M. O., and Ojo, J. S., 1996, An integration of aeromagnetic and electrical resistivity methods in dam site investigation: *Geophysics*, **61**, no. 02, 349–356.
- Aina, A., 1994, Simple derivation of Cordell's stripping filter (short note): *Geophysics*, **59**, no. 03, 488–490.
- Akbar, N., Dvorkin, J., and Nur, A., 1993, Relating P-wave attenuation to permeability: *Geophysics*, **58**, no. 01, 20–29.

- Akbar, N., Mavko, G., Nur, A., and Dvorkin, J., 1994, Seismic signatures of reservoir transport properties and pore fluid distribution: *Geophysics*, **59**, no. 08, 1222–1236.
- Akbar, F. E., Sen, M. K., and Stoffa, P. L., 1996, Prestack plane-wave Kirchhoff migration in laterally varying media: *Geophysics*, **61**, no. 04, 1068–1079.
- Aktarakci, H. K., Harthill, N., and Blohm, M. W., 1997, Time-domain electromagnetic survey for gold exploration, Nevada: *Geophysics*, **62**, no. 05, 1409–1418.
- Al-Chalabi, M., 1997a, Instantaneous slowness versus depth functions: *Geophysics*, **62**, no. 01, 270–273.
- Al-Chalabi, M., 1997b, Parameter nonuniqueness in velocity versus depth functions: *Geophysics*, **62**, no. 03, 970–979.
- Al-Eqabi, G. I., and Herrmann, R. B., 1993, Ground roll: A potential tool for constraining shallow shear-wave structure: *Geophysics*, **58**, no. 05, 713–719.
- Albu, I., and Papa, A., 1992, Application of high-resolution seismics in studying reservoir characteristics of hydrocarbon deposits in Hungary: *Geophysics*, **57**, no. 08, 1068–1088.
- Aldridge, D. F., and Oldenburg, D. W., 1992, Refractor imaging using an automated wavefront reconstruction method: *Geophysics*, **57**, no. 03, 378–385.
- Aldridge, D. F., 1994, Linearization of the eikonal equation (short note): *Geophysics*, **59**, no. 10, 1631–1632.
- Alfaraj, M., and Larner, K., 1992, Transformation to zero offset for mode-converted waves (short note): *Geophysics*, **57**, no. 03, 474–477.
- Alkhalifah, T., and Larner, K., 1994, Migration error in transversely isotropic media: *Geophysics*, **59**, no. 09, 1405–1418.
- Alkhalifah, T., and Tsvankin, I., 1995, Velocity analysis for transversely isotropic media: *Geophysics*, **60**, no. 05, 1550–1566.
- Alkhalifah, T., 1995a, Efficient synthetic-seismogram generation in transversely isotropic, inhomogeneous media: *Geophysics*, **60**, no. 04, 1139–1150.
- Alkhalifah, T., 1995b, Gaussian beam depth migration for anisotropic media: *Geophysics*, **60**, no. 05, 1474–1484.
- Alkhalifah, T., 1996, Transformation to zero offset in transversely isotropic media: *Geophysics*, **61**, no. 04, 947–963.
- Alkhalifah, T., 1997a, Kinematics of 3-D DMO operators in transversely isotropic media: *Geophysics*, **62**, no. 04, 1214–1219.
- Alkhalifah, T., 1997b, Seismic data processing in vertically inhomogeneous TI media: *Geophysics*, **62**, no. 02, 662–675.

- Alkhalifah, T., 1997c, Velocity analysis using nonhyperbolic moveout in transversely isotropic media: *Geophysics*, **62**, no. 06, 1839–1854.
- Alsdorf, D., 1997, Noise reduction in seismic data using Fourier correlation coefficient filtering: *Geophysics*, **62**, no. 05, 1617–1627.
- Alumbaugh, D. L., and Morrison, H. F., 1995, Theoretical and practical considerations for crosswell electromagnetic tomography assuming a cylindrical geometry: *Geophysics*, **60**, no. 03, 846–870.
- Amano, H., 1995, An analytical solution to separate P-waves and S-waves in VSP wavefields: *Geophysics*, **60**, no. 04, 955–967.
- Ambrose, W. A., and Ferrer, E. R., 1997, Seismic stratigraphy and oil recovery potential of tide-dominated depositional sequences in the lower Misoa formation (lower Eocene), LL-652 area, Lagunillas field, Lake Maracaibo, Venezuela: *Geophysics*, **62**, no. 05, 1483–1495.
- Amundsen, L., and Mittet, R., 1994, Estimation of phase velocities and Q-factors from zero-offset vertical seismic profile data: *Geophysics*, **59**, no. 04, 500–517.
- Amundsen, L., and Reitan, A., 1994, Transformation from 2-D to 3-D wave propagation for horizontally layered media (short note): *Geophysics*, **59**, no. 12, 1920–1926.
- Amundsen, L., and Reitan, A., 1995a, Decomposition of multicomponent sea-floor data into upgoing and downgoing P- and S-waves: *Geophysics*, **60**, no. 02, 563–572.
- Amundsen, L., and Reitan, A., 1995b, Estimation of sea-floor wave velocities and density from pressure and particle velocity by AVO analysis (short note): *Geophysics*, **60**, no. 05, 1575–1578.
- Amundsen, L., and Reitan, A., 1995c, Extraction of P- and S-waves from the vertical component of the particle velocity at the sea floor: *Geophysics*, **60**, no. 01, 231–240.
- Amundsen, L., Secrest, B. G., and Arntsen, B., 1995, Extraction of the normal component of the particle velocity from marine pressure data: *Geophysics*, **60**, no. 01, 212–222.
- Amundsen, L., 1993a, Estimation of source array signatures (short note): *Geophysics*, **58**, no. 12, 1865–1869.
- Amundsen, L., 1993b, Wavenumber-based filtering of marine point-source data: *Geophysics*, **58**, no. 09, 1335–1348.
- Amundsen, L., 1994, The propagator matrix related to the Kirchhoff-Helmholtz integral in inverse wavefield extrapolation: *Geophysics*, **59**, no. 12, 1902–1910.
- Anderson, N. L., and Cederwall, D. A., 1993, Westhazel general petroleum pool: Case history of a salt-dissolution trap in west-central Saskatchewan, Canada: *Geophysics*, **58**, no. 06, 889–897.

- Anderson, N. L., and Knapp, R., 1993, An overview of some of the large-scale mechanisms of salt dissolution in western Canada: *Geophysics*, **58**, no. 09, 1375–1387.
- Anderson, J. E., and Tsvankin, I., 1997, Dip-moveout processing by Fourier transform in anisotropic media: *Geophysics*, **62**, no. 04, 1260–1269.
- Anderson, J., Alkhalifah, T., and Tsvankin, I., 1996a, Fowler DMO and time migration for transversely isotropic media: *Geophysics*, **61**, no. 03, 835–844.
- Anderson, N. L., Brown, R. J., and Cederwall, D. A., 1996b, Natural recession of the eastern margin of the Leofnard salt in western Canada: *Geophysics*, **61**, no. 01, 222–231.
- Anderson, W. L., 1995, Q-factor approximation of electromagnetic fields for high-frequency sounding in the 300 khz to 30 MHz range over layered media (short note): *Geophysics*, **60**, no. 04, 1253–1258.
- Annan, A. P., Smith, R. S., Lemieux, J., O'Connell, M. D., and Pedersen, R. N., 1996, Resistive-limit, time-domain AEM apparent conductivity: *Geophysics*, **61**, no. 01, 93–99.
- Apostoiu-Marin, I., and Ehinger, A., 1997, Kinematic interpretation in the prestack depth-migrated domain: *Geophysics*, **62**, no. 04, 1226–1237.
- Apostolopoulos, G., Louis, I., and Lagios, E., 1997, The self-potential method in the geothermal exploration of Greece: *Geophysics*, **62**, no. 06, 1715–1723.
- Apparao, A., and Srinivas, G. S., 1995, Discussion on 'Depth of investigation of collinear electrode arrays over homogeneous anisotropic half-space in direct current methods', by B. B. Bhattacharya and M. K. Sen with reply (geo-46-5-768-780): *Geophysics*, **60**, no. 06, 1936–1942.
- Arcone, S. A., 1996, High resolution of glacial ice stratigraphy: A ground-penetrating radar study of Pegasus Runway, McMurdo Station, Antarctica: *Geophysics*, **61**, no. 06, 1653–1663.
- Arntsen, B., and Ursin, B., 1993, Estimation of reflection coefficients from zero-offset field data: *Geophysics*, **58**, no. 11, 1634–1645.
- Artley, C., and Hale, D., 1994, Dip-moveout processing for depth-variable velocity: *Geophysics*, **59**, no. 04, 610–622.
- Ass'ad, J. M., Tatham, R. H., and McDonald, J. A., 1992, A physical model study of microcrack-induced anisotropy: *Geophysics*, **57**, no. 12, 1562–1570.
- Ata, E. Z., Corrigan, D., McMechan, G. A., and Gaiser, J. E., 1993, Estimation of near-surface elastic parameters using multicomponent seismic data: *Geophysics*, **58**, no. 07, 1017–1029.

- Audebert, F., Nichols, D., Rekdal, T., Biondi, B., Lumley, D. E., and Urdaneta, H., 1997, Imaging complex geologic structure with single-arrival Kirchhoff prestack depth migration: *Geophysics*, **62**, no. 05, 1533–1543.
- Avedik, F., Renard, V., Allenou, J. P., and Morvan, B., 1993, 'single bubble' air-gun array for deep exploration: *Geophysics*, **58**, no. 03, 366–382.
- Bagaini, C., and Spagnolini, U., 1996, 2-D continuation operators and their applications: *Geophysics*, **61**, no. 06, 1846–1858.
- Ball, G., 1995, Estimation of anisotropy and anisotropic 3-D prestack depth migration, offshore Zaire: *Geophysics*, **60**, no. 05, 1495–1513.
- Barbosa, V. C. F., and Silva, J. B. C., 1994, Generalized compact gravity inversion: *Geophysics*, **59**, no. 01, 57–68.
- Barbosa, V. C. F., Silva, J. B. C., and Medeiros, W. E., 1997, Gravity inversion of basement relief using approximate equality constraints on depths: *Geophysics*, **62**, no. 06, 1745–1757.
- Barnes, A. E., 1992a, Another look at NMO stretch (short note): *Geophysics*, **57**, no. 05, 749–751.
- Barnes, A. E., 1992b, The calculation of instantaneous frequency and instantaneous bandwidth (short note): *Geophysics*, **57**, no. 11, 1520–1524.
- Barnes, A. E., 1993, Instantaneous spectral bandwidth and dominant frequency with applications to seismic reflection data: *Geophysics*, **58**, no. 03, 419–428.
- Barnes, A. E., 1995, Discussion on 'Pulse distortion in depth migration', by M. Tygel, J. Schleicher, and P. Hubral (geo-59-10-1561-1569): *Geophysics*, **60**, no. 06, 1942–1947.
- Barnes, A. E., 1996, Theory of 2-D complex seismic trace analysis: *Geophysics*, **61**, no. 01, 264–272.
- Basokur, A. T., Rasmussen, T. M., Kaya, C., Altun, Y., and Aktas, K., 1997, Comparison of induced polarization and controlled-source audio-magnetotellurics methods for massive chalcopyrite exploration in a volcanic area: *Geophysics*, **62**, no. 04, 1087–1096.
- Batzle, M., and Wang, Z., 1992, Seismic properties of pore fluids: *Geophysics*, **57**, no. 11, 1396–1408.
- Bear, G. W., Al-Shukri, H. J., and Rudman, A. J., 1995, Linear inversion of gravity data for 3-D density distributions: *Geophysics*, **60**, no. 05, 1354–1364.
- Beard, L. P., and Tripp, A. C., 1995, Investigating the resolution of IP arrays using inverse theory: *Geophysics*, **60**, no. 05, 1326–1341.

- Beard, L. P., Hohmann, G. W., and Tripp, A. C., 1996, Fast resistivity/ip inversion using a low-contrast approximation: *Geophysics*, **61**, no. 01, 169–179.
- Beasley, C., and Lynn, W., 1992, The zero-velocity layer: Migration from irregular surfaces: *Geophysics*, **57**, no. 11, 1435–1443.
- Beaudoin, B. C., ten Brink, U. S., and Stern, T. A., 1992, Characteristics and processing of seismic data collected on thick, floating ice: Results from the Ross ice shelf, Antarctica: *Geophysics*, **57**, no. 10, 1359–1372.
- Beckham, W. E., 1996, Seismic anisotropy and natural fractures from VSP and borehole sonic tools - A field study: *Geophysics*, **61**, no. 02, 456–466.
- Beltrao, J. F., and Silva, J. B. C., 1993, Mapping and depth ordering of residual gravity sources: *Geophysics*, **58**, no. 10, 1408–1416.
- Benson, A. K., Payne, K. L., and Stubben, M. A., 1997, Mapping groundwater contamination using DC resistivity and VLF geophysical methods - A case study: *Geophysics*, **62**, no. 01, 80–86.
- Beresnev, I. A., and Johnson, P. A., 1994, Elastic-wave simulation of oil production: A review of methods and results: *Geophysics*, **59**, no. 06, 1000–1017.
- Berg, C. R., 1995, A simple, effective-medium model for water saturation in porous rocks: *Geophysics*, **60**, no. 04, 1070–1080.
- Berge, P. A., Bonner, B. P., and Berryman, J. G., 1995, Ultrasonic velocity-porosity relationships for sandstone analogs made from fused glass beads: *Geophysics*, **60**, no. 01, 108–119.
- Berkhout, A. J., and Verschuur, D. J., 1997, Estimation of multiple scattering by iterative inversion, part I: Theoretical considerations: *Geophysics*, **62**, no. 05, 1586–1595.
- Berkhout, A. J., 1997a, Pushing the limits of seismic imaging, part I: Prestack migration in terms of double dynamic focusing: *Geophysics*, **62**, no. 03, 937–953.
- Berkhout, A. J., 1997b, Pushing the limits of seismic imaging, part II: Integration of prestack migration, velocity, estimation, and AVO analysis: *Geophysics*, **62**, no. 03, 954–969.
- Berni, A. J., 1994, Remote sensing of seismic vibrations by laser Doppler interferometry: *Geophysics*, **59**, no. 12, 1856–1867.
- Best, A. I., and McCann, C., 1995, Seismic attenuation and pore-fluid viscosity in clay-rich reservoir sandstones: *Geophysics*, **60**, no. 05, 1386–1397.
- Bevc, D., Black, J. L., and Palacharla, G., 1995, Plumes: Response of time migration to lateral velocity variation: *Geophysics*, **60**, no. 04, 1118–1127.

- Bevc, D., 1997a, Flooding the topography: Wave-equation datuming of land data with rugged acquisition topography: *Geophysics*, **62**, no. 05, 1558–1569.
- Bevc, D., 1997b, Imaging complex structures with semirecursive Kirchhoff migration: *Geophysics*, **62**, no. 02, 577–588.
- Bezvoda, V., Hrabec, J., and Segeth, K., 1992, Linear filters for solving the direct problem of potential fields (short note): *Geophysics*, **57**, no. 10, 1348–1351.
- Bickel, S. H., 1993, Similarity and the inverse Q filter: The Pareto-levy stretch: *Geophysics*, **58**, no. 11, 1629–1633.
- Biondi, B., and Palacharla, G., 1996, 3-D prestack migration of common-azimuth data: *Geophysics*, **61**, no. 06, 1822–1832.
- Biondi, B., 1992, Velocity estimation by beam stack: *Geophysics*, **57**, no. 08, 1034–1047.
- Bishop, T. N., and Nunns, A. G., 1994, Correcting amplitude, time, and phase mis-ties in seismic data: *Geophysics*, **59**, no. 06, 946–953.
- Bjarnason, I. T., and Menke, W., 1993, Application of the POCS inversion method to cross-borehole imaging: *Geophysics*, **58**, no. 07, 941–948.
- Black, J. L., and Brzostowski, M. A., 1994, Systematics of time-migration errors: *Geophysics*, **59**, no. 09, 1419–1434.
- Black, J. L., Schleicher, K. L., and Zhang, L., 1993, True-amplitude imaging and dip moveout: *Geophysics*, **58**, no. 01, 47–66.
- Black, R. A., Steeples, D. W., and Miller, R. D., 1994, Migration of shallow seismic reflection data: *Geophysics*, **59**, no. 03, 402–410.
- Blair, D. P., 1993, Discussion on 'A waveform inversion technique for measuring elastic wave attenuation in cylindrical bars', by X. M. Tang (geo-57-6-854-859) with reply by author: *Geophysics*, **58**, no. 06, 904–905.
- Blair, D., 1995, Soil-embedded detector mounts for seismic monitoring: *Geophysics*, **60**, no. 01, 120–133.
- Blanch, J. O., Robertsson, J. O. A., and Symes, W. W., 1995, Modeling of a constant Q: Methodology and algorithm for an efficient and optimally inexpensive viscoelastic technique: *Geophysics*, **60**, no. 01, 176–184.
- Blangy, J. P., Strandenes, S., Moos, D., and Nur, A., 1993, Ultrasonic velocities in sands - Revisited: *Geophysics*, **58**, no. 03, 344–356.
- Blangy, J. P., 1994, AVO in transversely isotropic media—an overview: *Geophysics*, **59**, no. 05, 775–781.

- Block, L. V., Cheng, C. H., Fehler, M. C., and Phillips, W. S., 1994, Seismic imaging using microearthquakes induced by hydraulic fracturing: *Geophysics*, **59**, no. 01, 102–112.
- Blonk, B., and Herman, G. C., 1994, Inverse scattering of surface waves: A new look at surface consistency: *Geophysics*, **59**, no. 06, 963–972.
- Blonk, B., and Herman, G. C., 1996, Removal of scattered surface waves using multi-component seismic data: *Geophysics*, **61**, no. 05, 1483–1488.
- Blonk, B., Herman, G. C., and Drijkoningen, G. G., 1995, An elastodynamic inverse scattering method for removing scattered surface waves from field data: *Geophysics*, **60**, no. 06, 1897–1905.
- Boerner, D. E., Kurtz, R. D., and Jones, A. G., 1993a, Orthogonality in CSAMT and MT measurements: *Geophysics*, **58**, no. 07, 924–934.
- Boerner, D. E., Wright, J. A., Thurlow, J. G., and Reed, L. E., 1993b, Tensor CSAMT studies at the Buchans Mine in central Newfoundland: *Geophysics*, **58**, no. 01, 12–19.
- Boschetti, F., Dentith, M. C., and List, R. D., 1996a, Inversion of seismic refraction data using genetic algorithms: *Geophysics*, **61**, no. 06, 1715–1727.
- Boschetti, F., Dentith, M. D., and List, R. D., 1996b, A fractal-based algorithm for detecting first arrivals on seismic traces: *Geophysics*, **61**, no. 04, 1095–1102.
- Bouchon, M., 1993, A numerical simulation of the acoustic and elastic wavefields radiated by a source on a fluid-filled borehole embedded in a layered medium: *Geophysics*, **58**, no. 04, 475–481.
- Boulfoul, M., and Watts, D. R., 1994, Separation and enhancement of split S-waves on multicomponent shot records from the BIRPS WISPA experiment: *Geophysics*, **59**, no. 01, 131–139.
- Boulfoul, M., and Watts, D. R., 1997, Application of instantaneous rotations to S-wave vertical seismic profiling: *Geophysics*, **62**, no. 05, 1365–1368.
- Bracalari, M., and Salusti, E., 1994, On a nonlinear autoregressive method applied to geophysical signals: *Geophysics*, **59**, no. 08, 1270–1277.
- Brewster, M. L., and Annan, A. P., 1994, Ground-penetrating radar monitoring of a controlled DNAPL release: 200 MHz radar: *Geophysics*, **59**, no. 08, 1211–1221.
- Brigaud, F., Vasseur, G., and Caillet, G., 1992, Thermal state in the North Viking Graben (north Sea) determined from oil exploration well data: *Geophysics*, **57**, no. 01, 69–88.
- Brittan, J., Warner, M., and Pratt, G., 1995, Anisotropic parameters of layered media in terms of composite elastic properties (short note): *Geophysics*, **60**, no. 04, 1243–1248.

- Brown, R. L., and Seifert, D., 1997, Velocity dispersion: A tool for characterizing reservoir rocks: *Geophysics*, **62**, no. 02, 477–486.
- Bruhl, M., Vermeer, G. J. O., and Kiehn, M., 1996, Short note - Fresnel zones for broadband data: *Geophysics*, **61**, no. 02, 600–604.
- Brumbaugh, D. L., 1992, SMAP revisited and revised: *Geophysics*, **57**, no. 02, 258–262.
- Bruno, M. S., and Winterstein, D. F., 1994, Some influences of stratigraphy and structure on reservoir stress orientation: *Geophysics*, **59**, no. 06, 954–962.
- Bryant, S., and Raikes, S., 1995, Prediction of elastic-wave velocities in sandstones using structural models: *Geophysics*, **60**, no. 02, 437–446.
- Brzostowski, M. A., and McMechan, G. A., 1992, 3-D tomographic imaging of near-surface seismic velocity and attenuation: *Geophysics*, **57**, no. 03, 396–403.
- Brzostowski, M. A., Snyder, F. C., and Smith, P. J., 1996, Efficient one-pass 3-D time migration: *Geophysics*, **61**, no. 06, 1833–1845.
- Bube, K. P., and Langan, R. T., 1997, Hybrid  $\lambda_1/\lambda_2$  minimization with applications to tomography: *Geophysics*, **62**, no. 04, 1183–1195.
- Buland, A., Landro, M., Andersen, M., and Dahl, T., 1996, AVO inversion of Troll field data: *Geophysics*, **61**, no. 06, 1589–1602.
- Bunks, C., Saleck, F. M., Zaleski, S., and Chavent, G., 1995, Multiscale seismic waveform inversion: *Geophysics*, **60**, no. 05, 1457–1473.
- Buoro, A. B., and Silva, J. B. C., 1994, Ambiguity analysis of well-log data: *Geophysics*, **59**, no. 03, 336–344.
- Burton, A., and Lines, L., 1997, VSP detection of interbed multiples using inside-outside corridor stacking: *Geophysics*, **62**, no. 05, 1628–1635.
- Buselli, G., and Cameron, M., 1996, Robust statistical methods for reducing sferics noise contaminating transient electromagnetic measurements: *Geophysics*, **61**, no. 06, 1633–1646.
- Buselli, G., and Williamson, D. R., 1996, Modeling of broadband airborne electromagnetic responses from saline environments: *Geophysics*, **61**, no. 06, 1624–1632.
- Butler, D. K., and Kean, T. B. I., 1993, Investigations of magnetic field disturbances at an air force base compass calibration hardstand: *Geophysics*, **58**, no. 03, 434–440.
- Butler, D. B., and Knight, R. J., 1995, The effect of steam quality on the electrical behavior of steam-flooded sands: A laboratory study: *Geophysics*, **60**, no. 04, 998–1006.
- Butler, K. E., and Russell, R. D., 1993, Subtraction of powerline harmonics from geophysical records (short note): *Geophysics*, **58**, no. 06, 898–903.

- Butler, K. E., Russell, R. D., Kepic, A. W., and Maxwell, M., 1996, Measurement of the seismoelectric response from a shallow boundary: *Geophysics*, **61**, no. 06, 1769–1778.
- Butler, D. K., 1995, Generalized gravity gradient analysis for 2-D inversion: *Geophysics*, **60**, no. 04, 1018–1028.
- Cai, J., and McMechan, G. A., 1995, Ray-based synthesis of bistatic ground-penetrating radar profiles: *Geophysics*, **60**, no. 01, 87–96.
- Cai, W., Qin, F., and Schuster, G. T., 1996, Electromagnetic velocity inversion using 2-D Maxwell's equations: *Geophysics*, **61**, no. 04, 1007–1021.
- Calderon-Macias, C., Sen, M. K., and Stoffa, P. L., 1997, Hopfield neural networks, and mean field annealing for seismic deconvolution and multiple attenuation: *Geophysics*, **62**, no. 03, 992–1002.
- Cambois, G., and Stoffa, P. L., 1992, Surface-consistent deconvolution in the log/fourier domain: *Geophysics*, **57**, no. 06, 823–840.
- Cambois, G., and Stoffa, P. L., 1993, Surface-consistent phase decomposition in the log/fourier domain: *Geophysics*, **58**, no. 08, 1099–1111.
- Campos-Enriquez, J. O., Delgado-Rodriguez, O., Chavez-Segura, R., Gomez-Contreras, P., Flores-Marquez, E. L., and Birch, F. S., 1997, The subsurface structure of the Chalco sub-basin (mexico City) inferred from geophysical data: *Geophysics*, **62**, no. 01, 23–35.
- Canning, A., and Gardner, G. H. F., 1996a, Regularizing 3-D data sets with DMO: *Geophysics*, **61**, no. 04, 1103–1114.
- Canning, A., and Gardner, G. H. F., 1996b, A two-pass approximation to 3-D prestack migration: *Geophysics*, **61**, no. 02, 409–421.
- Cao, S., and Greenhalgh, S. A., 1994, Finite-difference solution of the eikonal equation using an efficient, first-arrival wavefront tracking scheme: *Geophysics*, **59**, no. 04, 632–643.
- Carcione, J. M., and Cavallini, F., 1995a, Forbidden directions for inhomogeneous pure shear waves in dissipative anisotropic media: *Geophysics*, **60**, no. 02, 522–530.
- Carcione, J. M., and Cavallini, F., 1995b, The generalized SH-wave equation: *Geophysics*, **60**, no. 02, 549–555.
- Carcione, J. M., Kosloff, D., Behle, A., and Seriani, G., 1992, A spectral scheme for wave propagation simulation in 3-D elastic-anisotropic media: *Geophysics*, **57**, no. 12, 1593–1607.
- Carcione, J. M., Quiroga-Goode, G., and Cavallini, F., 1996, Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling: *Geophysics*, **61**, no. 03, 857–861.

- Carcione, J. M., 1992, Modeling anelastic singular surface waves in the Earth: *Geophysics*, **57**, no. 06, 781–792.
- Carcione, J. M., 1993, Seismic modeling in viscoelastic media: *Geophysics*, **58**, no. 01, 110–120.
- Carcione, J. M., 1994a, The wave equation in generalized coordinates: *Geophysics*, **59**, no. 12, 1911–1919.
- Carcione, J. M., 1994b, Wavefronts in dissipative anisotropic media: *Geophysics*, **59**, no. 04, 644–657.
- Carcione, J. M., 1995, Constitutive model and wave equations for linear, viscoelastic, anisotropic media: *Geophysics*, **60**, no. 02, 537–548.
- Carcione, J. M., 1996, Ground-penetrating radar: Wave theory and numerical simulation in lossy anisotropic media: *Geophysics*, **61**, no. 06, 1664–1677.
- Cardimona, S., and Garmany, J., 1993, Smoothing operators for waveform tomographic imaging: *Geophysics*, **58**, no. 11, 1646–1654.
- Carrion, P., Costa, J., Pinheiro, J. E. F., and Schoenberg, M., 1992, Cross-borehole in anisotropic media (short note): *Geophysics*, **57**, no. 09, 1194–1198.
- Carrion, P., Carcione, J., and Sampaio, E., 1996, Short note - Radiation patterns: Possibility for monitoring seismic sources: *Geophysics*, **61**, no. 01, 282–287.
- Carrion, P. M., Puledda, S., and Comelli, P., 1997, Gibbs statistics in crosswell and reflection tomography: Inversion of noisy data: *Geophysics*, **62**, no. 04, 1208–1213.
- Carroll, S., and Beresford, G., 1996, Combining reflection tomography with layer replacement for velocity analysis of near-surface reefs: *Geophysics*, **61**, no. 02, 561–569.
- Cary, P. W., and Eaton, D. W. S., 1993, A simple method for resolving large converted-wave (p-sv) statics (short note): *Geophysics*, **58**, no. 03, 429–433.
- Cary, P. W., and Lorentz, G. A., 1993, Four-component surface-consistent deconvolution: *Geophysics*, **58**, no. 03, 383–392.
- Casper, D. A., and Kung, K. J. S., 1996, Simulation of ground-penetrating radar waves in a 2-D soil model: *Geophysics*, **61**, no. 04, 1034–1049.
- Castagna, J. P., and Smith, S. W., 1994, Comparison of AVO indicators: A modeling study: *Geophysics*, **59**, no. 12, 1849–1855.
- Castle, R. J., 1994, Theory of normal moveout: *Geophysics*, **59**, no. 06, 983–999.
- Cerveny, V., and Soares, J. E. P., 1992, Fresnel volume ray tracing: *Geophysics*, **57**, no. 07, 902–915.

- Chakraborty, A., and Okaya, D., 1995, Frequency-time decomposition of seismic data using wavelet-based methods: *Geophysics*, **60**, no. 06, 1906–1916.
- Chang, C.-H., and Gardner, G. H. F., 1997, Effects of vertically aligned subsurface fractures on seismic reflections: A physical model study: *Geophysics*, **62**, no. 01, 245–252.
- Chang, W. F., and McMechan, G. A., 1994, 3-D elastic prestack, reverse-time depth migration: *Geophysics*, **59**, no. 04, 597–610.
- Chang, C. H., Gardner, G. H. F., and McDonald, J. A., 1994, A physical model study of shear-wave propagation in a transversely isotropic solid (short note): *Geophysics*, **59**, no. 03, 484–487.
- Chang, C.-H., Gardner, G. H. F., and McDonald, J. A., 1995, Experimental observation of surface wave propagation for a transversely isotropic medium: *Geophysics*, **60**, no. 01, 185–190.
- Chapin, D. A., 1993, Discussion on 'Correction of topographic distortions in potential-field data: A fast and accurate approach', by Juanghai Xia, Donald R. Sprowl, and Dana Adkins-Heljeson (geo-58-4-515-523) with reply by authors: *Geophysics*, **58**, no. 12, 1874–1875.
- Chapin, D. A., 1996, A deterministic approach toward isostatic gravity residuals - A case study from South America: *Geophysics*, **61**, no. 04, 1022–1033.
- Charara, M., and Tarantola, A., 1996, Boundary conditions and the source term for one-way acoustic depth extrapolation: *Geophysics*, **61**, no. 01, 244–252.
- Chavent, G., and Jacewitz, C. A., 1995, Determination of background velocities by multiple migration fitting: *Geophysics*, **60**, no. 02, 476–490.
- Chen, H. W., and McMechan, G. A., 1993, 3-D physical modeling and pseudospectral simulation of seismic common-source data volumes: *Geophysics*, **58**, no. 01, 121–133.
- Chen, G., and Zhou, H. W., 1994, Boundary element modeling of nondissipative and dissipative waves: *Geophysics*, **59**, no. 01, 113–118.
- Chen, X., Quan, Y., and Harris, J. M., 1996, Seismogram synthesis for radially layered media using the generalized reflection/transmission coefficients method: Theory and applications to acoustic logging: *Geophysics*, **61**, no. 04, 1150–1159.
- Chen, Y. H., Chew, W. C., and Oristaglio, M. L., 1997, Application of perfectly matched layers to the transient modeling of subsurface EM problems: *Geophysics*, **62**, no. 06, 1730–1736.
- Chen, G., 1996, Comparison of 2-D numerical viscoelastic waveform modeling with ultrasonic physical modeling: *Geophysics*, **61**, no. 03, 862–871.

- Cheng, N., and Cheng, C. H., 1996, Estimations of formation velocity, permeability, and shear-wave anisotropy using acoustic logs: *Geophysics*, **61**, no. 02, 437–443.
- Cheng, N., and House, L., 1996, Minimum travelttime calculation in 3-D graph theory: *Geophysics*, **61**, no. 06, 1895–1898.
- Cheng, N., 1996, Nonlinear wave propagation in sandstone: A numerical study: *Geophysics*, **61**, no. 06, 1935–1938.
- Cho, W. H., and Spencer, T. W., 1992, Estimation of polarization and slowness in mixed wavefields: *Geophysics*, **57**, no. 06, 805–814.
- Chouteau, M., Zhang, P., Dion, D. J., Giroux, B., Morin, R., and Krivochieva, S., 1997, Delineating mineralization and imaging the regional structure with magnetotellurics in the region of Chibougamau (canada): *Geophysics*, **62**, no. 03, 730–748.
- Chunduru, R. K., Sen, M. K., and Stoffa, P. L., 1996, 2-D resistivity inversion using spline parameterization and simulated annealing: *Geophysics*, **61**, no. 01, 151–161.
- Chunduru, R. K., Sen, M. K., and Stoffa, P. L., 1997, Hybrid optimization methods for geophysical inversion: *Geophysics*, **62**, no. 04, 1196–1207.
- Chung, H. M., and Lawton, D. C., 1995, Amplitude responses of thin beds: Sinusoidal approximation versus Ricker approximation: *Geophysics*, **60**, no. 01, 223–230.
- Clark, V. A., 1992, The effect of oil under in-situ conditions on the seismic properties of rocks: *Geophysics*, **57**, no. 07, 894–901.
- Clippard, J. D., Christensen, D. H., and Rechten, R. D., 1995, Composite distribution inversion applied to crosshole tomography: *Geophysics*, **60**, no. 05, 1283–1294.
- Coates, R. T., and Schoenberg, M., 1995, Finite-difference modeling of faults and fractures: *Geophysics*, **60**, no. 05, 1514–1526.
- Cohen, J. K., 1997, Analytic study of the effectiveness parameters for determination of the NMO velocity function in transversely isotropic media: *Geophysics*, **62**, no. 06, 1855–1866.
- Collins, C. L., 1997a, Imaging in 3-D DMO, part I: Geometrical optics models: *Geophysics*, **62**, no. 01, 211–224.
- Collins, C. L., 1997b, Imaging in 3-D DMO, part II: Amplitude effects: *Geophysics*, **62**, no. 01, 225–244.
- Cools, O. F., Herman, G. C., van der Weiden, R. M., and Kets, F. B., 1997, Fast computation of the 3-D Radon transform: *Geophysics*, **62**, no. 01, 362–364.
- Cooper, N. J., and Swift, R., 1994, Application of TEM to Cyprus-type massive sulfide exploration in Cyprus: *Geophysics*, **59**, no. 02, 202–214.
- Cordell, L., 1992, A scattered equivalent-source method for interpolation and gridding of potential-field data in three dimensions: *Geophysics*, **57**, no. 04, 629–636.

- Cordell, L., 1994, Potential-field sounding using Euler's homogeneity equation and Zidarov bubbling: *Geophysics*, **59**, no. 06, 902–908.
- Corrigan, J., and Sweat, M., 1995, Heat flow and gravity responses over salt bodies: A comparative model analysis: *Geophysics*, **60**, no. 04, 1029–1037.
- Corry, C. E., 1997, Discussion on 'Magnetotelluric delineation of the Trillabelle massive sulfide body in Sudbury, Ontario' by Livelybrooks, D., Mareschal, M., Blais, E., Smith, J. T. with reply from author (geo-61-4-971-986): *Geophysics*, **63**, no. 06, 1672–1673.
- Coultrip, R. L., 1993, High-accuracy wavefront tracing traveltimes calculation: *Geophysics*, **58**, no. 02, 284–292.
- Court, I. N., 1993, Streamer compass validation and verification (short note): *Geophysics*, **58**, no. 04, 589–592.
- Cross, G. M., 1992, Array responses for plane and spherical incidence: *Geophysics*, **57**, no. 10, 1294–1306.
- Cunha, C. A., 1993, Elastic modeling in discontinuous media: *Geophysics*, **58**, no. 12, 1840–1851.
- Curtis, A., and Snieder, R., 1997, Reconditioning inverse problems using the genetic algorithm and revised parameterization: *Geophysics*, **62**, no. 05, 1524–1532.
- Dabas, M., and Skinner, J. R., 1993, Time-domain magnetization of soils (vrn) experimental relationship to quadrature susceptibility: *Geophysics*, **58**, no. 03, 326–333.
- Dai, N., Vafidis, A., and Kanasevich, E. R., 1995, Wave propagation in heterogeneous, porous media: A velocity-stress, finite-difference method: *Geophysics*, **60**, no. 02, 327–340.
- Daneshvar, M. R., Clay, C. S., and Savage, M. K., 1995, Passive seismic imaging using microearthquakes: *Geophysics*, **60**, no. 04, 1178–1186.
- Das, U. C., and de Hoop, A. T., 1995, Efficient computation of apparent resistivity curves for depth profiling of a layered earth: *Geophysics*, **60**, no. 06, 1691–1697.
- Das, U. C., 1995a, Apparent resistivity curves in controlled-source electromagnetic sounding directly reflecting true resistivities in a layered earth: *Geophysics*, **60**, no. 01, 53–60.
- Das, U. C., 1995b, Frequency- and time-domain electromagnetic responses of layered earth: A multiseparation, multisystem approach (short note): *Geophysics*, **60**, no. 01, 285–290.
- Das, U. C., 1997, Multiseparation, multisystem electromagnetic depth sounding - An extension for unification: *Geophysics*, **62**, no. 01, 56–62.

- De, G. S., Winterstein, D. F., and Meadows, M. A., 1994, Comparison of P- and S-wave velocities and Q's from VSP and sonic log data: *Geophysics*, **59**, no. 10, 1512–1529.
- de Groot, P. F. M., Bril, A. H., Floris, F. J. T., and Campbell, A. E., 1996, Monte Carlo simulation of wells: *Geophysics*, **61**, no. 03, 631–638.
- de Kuijper, A., Sandor, R. K. J., Hofman, J. P., and de Waal, J. A., 1996, Conductivity of two-component systems: *Geophysics*, **61**, no. 01, 162–168.
- de Lima, O. A. L., and Sharma, M. M., 1992, A generalized Maxwell-Wagner theory for membrane polarization in shaly sands: *Geophysics*, **57**, no. 03, 431–440.
- de Lima, O. A. L., 1993, Geophysical evaluation of sandstone aquifers in the Reconcavo-Tucano basin, Bahia-Brazil: *Geophysics*, **58**, no. 11, 1689–1702.
- de Lima, O. A. L., 1995, Water saturation and permeability from resistivity, dielectric, and porosity logs: *Geophysics*, **60**, no. 06, 1756–1764.
- de Miranda, F. P., McCafferty, A. E., and Taranik, J. V., 1994, Reconnaissance geologic mapping of a portion of the rain forest – covered Guiana shield, northwestern Brazil, using SIR-B and digital aeromagnetic data: *Geophysics*, **59**, no. 05, 733–743.
- de Nicolao, A., Drufuca, G., and Rocca, F., 1993, Eigenvectors and eigenvalues of linearized elastic inversion: *Geophysics*, **58**, no. 05, 670–679.
- Debeglia, N., and Coppel, J., 1997, Automatic 3-D interpretation of potential field data using analytic signal derivatives: *Geophysics*, **62**, no. 01, 87–96.
- Debski, W., and Tarantola, A., 1995, Information on elastic parameters obtained from the amplitudes of reflected waves: *Geophysics*, **60**, no. 05, 1426–1436.
- Deighan, A. J., and Watts, D. R., 1997, Ground-roll suppression using the wavelet transform: *Geophysics*, **62**, no. 06, 1896–1903.
- Dellinger, J., and Vernick, L., 1994, Do traveltimes in pulse-transmission experiments yield anisotropic group or phase velocities? (short note): *Geophysics*, **59**, no. 11, 1774–1779.
- Deng, D., and Ou, Q., 1995, Geophysical prospecting for petroleum in marine carbonate areas of the lower Yangtze region of southern China: *Geophysics*, **60**, no. 05, 1306–1312.
- Deng, H. L., 1994, Acoustic-wave propagation in thin-layered media with steep reflectors: *Geophysics*, **59**, no. 10, 1593–1604.
- Desvignes, G., Barthes, V., and Tabbagh, A., 1992, Direct determination of the natural remanent magnetization effect in a hole drilled in layered ground from magnetic field and susceptibility logs: *Geophysics*, **57**, no. 07, 872–884.
- Dickens, T. A., 1994, Diffraction tomography for crosswell imaging of nearly layered media: *Geophysics*, **59**, no. 05, 694–706.

- Docherty, P., 1992, Solving for the thickness and velocity of the weathering layer using 2-D refraction tomography: *Geophysics*, **57**, no. 10, 1307–1318.
- Dong, Z., and McMechan, G. A., 1993, 3-D prestack migration in anisotropic media: *Geophysics*, **58**, no. 01, 79–90.
- Dong, Z., and McMechan, G. A., 1995, 3-D viscoelastic anisotropic modeling of data from a multicomponent, multi-azimuth seismic experiment in northeast Texas: *Geophysics*, **60**, no. 04, 1128–1138.
- Dong, W., and Toksoz, M. N., 1995a, Borehole seismic-source radiation in layered isotropic and anisotropic media: Real data analysis: *Geophysics*, **60**, no. 03, 748–757.
- Dong, W., and Toksoz, M. N., 1995b, Borehole seismic source radiation pattern in transversely isotropic media: *Geophysics*, **60**, no. 01, 29–42.
- Dong, W., Bouchon, M., and Toksoz, M. N., 1995, Borehole seismic-source radiation in layered isotropic and anisotropic media: Boundary element modeling: *Geophysics*, **60**, no. 03, 735–747.
- Druifuca, G., and Mazzotti, A., 1995, Ambiguities in AVO inversion of reflections from a gas-sand: *Geophysics*, **60**, no. 01, 134–141.
- DuBose, J. B. J., 1993, Practical steps toward realizing the potential of Monte Carlo automatic statics: *Geophysics*, **58**, no. 03, 399–407.
- Duckworth, K., and Calvert, H. T., 1995, An examination of the relationship between time-domain integral chargeability and the Cole-Cole impedance model (short note): *Geophysics*, **60**, no. 04, 1249–1252.
- Duckworth, K., and Krebs, E. S., 1997, Depth sounding by means of a coincident coil frequency-domain electromagnetic system: *Geophysics*, **62**, no. 01, 49–55.
- Duncan, G., and Beresford, G., 1994, Slowness adaptive f-k filtering of prestack seismic data: *Geophysics*, **59**, no. 01, 140–147.
- Duncan, G., and Beresford, G., 1995, Some analyses of 2-D median f-k filters: *Geophysics*, **60**, no. 04, 1157–1168.
- Duren, R. E., and Andersen, K. D., 1997, Far-field phase extrapolation for marine source signatures: *Geophysics*, **62**, no. 05, 1636–1639.
- Duren, R. E., and Heestand, R. L., 1995, General solutions and causality for a Voigt medium: *Geophysics*, **60**, no. 01, 252–261.
- Duren, R. E., and Morris, S. V., 1992, Sideswipe removal via null steering: *Geophysics*, **57**, no. 12, 1623–1632.
- Duren, R. E., and Trantham, E. C., 1997, Sensitivity of the dispersion correction to Q error: *Geophysics*, **62**, no. 01, 288–290.

- Duren, R. E., 1992, Range-equation weights for AVO (short note): *Geophysics*, **57**, no. 09, 1203–1208.
- Dutta, S., 1995, Discussion on 'Migration by Fourier transform', by R. H. Stolt with reply (geo-43-1-23-48): *Geophysics*, **60**, no. 05, 1583.
- Dvorkin, J., and Nur, A., 1992, Filtration fronts in pressure compliant reservoirs (short note): *Geophysics*, **57**, no. 08, 1089–1092.
- Dvorkin, J., and Nur, A., 1993, Dynamic poroelasticity: A unified model with the squirt and the Biot mechanism: *Geophysics*, **58**, no. 04, 524–533.
- Dvorkin, J., and Nur, A., 1996, Elasticity of high-porosity sandstones: Theory of two North Sea data sets: *Geophysics*, **61**, no. 05, 1363–1370.
- Dvorkin, J., Mavko, G., and Nur, A., 1992, The dynamics of viscous compressible fluid in a fracture: *Geophysics*, **57**, no. 05, 720–726.
- Dvorkin, J., Nolen-Hoeksema, R., and Nur, A., 1994, Squirt-flow mechanism: Macroscopic description: *Geophysics*, **59**, no. 03, 428–438.
- Dvorkin, J., Mavko, G., and Nur, A., 1995, Squirt flow in fully saturated rocks: *Geophysics*, **60**, no. 01, 97–107.
- Dvorkin, J., Nur, A., and Chaika, C., 1996, Stress sensitivity of sandstones: *Geophysics*, **61**, no. 02, 444–455.
- Eastwood, J., 1993, Temperature-dependent propagation of P-waves and S-waves in Cold Lake oil sands: Comparison of theory and experiment: *Geophysics*, **58**, no. 06, 863–872.
- Eaton, D. W. S., and Lawton, D. C., 1992, P-SV stacking charts and binning periodicity (short note): *Geophysics*, **57**, no. 05, 745–748.
- Eaton, D. W., 1993, Discussion on 'Ultrasonic velocity and anisotropy of hydrocarbon source rocks', by L. Vernik and A. Nur (geo-57-5-727-735) with reply by authors: *Geophysics*, **58**, no. 05, 758–759.
- Edelmann, H. A. K., 1992, Circularly polarized shear waves used for VSP measurements (short note): *Geophysics*, **57**, no. 04, 643–646.
- Editor, 1995, Instructions to authors: *Geophysics*, **60**, no. 01, 3–18.
- Edwards, R. N., 1997, On the resource evaluation of marine gas hydrate deposits using sea-floor transient electric dipole-dipole methods: *Geophysics*, **62**, no. 01, 63–74.
- Egbert, G. D., and Livelybrooks, D. W., 1996, Single station magnetotelluric impedance estimation: Coherence weighting and the regression M-estimate: *Geophysics*, **61**, no. 04, 964–970.
- Egbert, G. D., 1992, Noncausality of the discrete-time magnetotelluric impulse response (short note): *Geophysics*, **57**, no. 10, 1354–1358.

- Ehinger, A., Lailly, P., and Marfurt, K. J., 1996, Green's function implementation of common-offset wave-equation migration: *Geophysics*, **61**, no. 06, 1813–1821.
- El-Kaliouby, H. M., El-Diwany, E. A., Hussain, S. A., Hashish, E. A., and Bayoumi, A. R., 1997, Optimum negative response of a coincident-loop electromagnetic system above a polarizable half-space: *Geophysics*, **62**, no. 01, 75–79.
- Ellefsen, K. J., Toksoz, M. N., Tubman, K. M., and Cheng, C. H., 1992, Estimating a shear modulus of a transversely isotropic formation: *Geophysics*, **57**, no. 11, 1428–1434.
- Ellefsen, K. J., Burns, D. R., and Cheng, C. H., 1993, Homomorphic processing of the tube wave generated during acoustic logging: *Geophysics*, **58**, no. 10, 1400–1407.
- Endres, A. L., and Knight, R. J., 1997, Incorporating pore geometry and fluid pressure communication into modeling the elastic behavior of porous rocks: *Geophysics*, **62**, no. 01, 106–117.
- Epili, D., and McMechan, G. A., 1996, Implementation of 3-D prestack Kirchhoff migration, with application to data from the Ouachita frontal thrust zone: *Geophysics*, **61**, no. 05, 1400–1411.
- Esparza, F. J., and Gomez-Trevino, E., 1997a, 1-D inversion of resistivity and induced polarization data for the least number of layers: *Geophysics*, **62**, no. 06, 1724–1729.
- Esparza, F. J., and Gomez-Trevino, E., 1997b, Discussion on 'The magnetotelluric method in the exploration of sedimentary basins', by Vozoff, K. with reply from author (geo-37-1-98-141): *Geophysics*, **62**, no. 2, 691–692.
- Faccioli, E., Maggio, F., Quarteroni, A., and Tagliani, A., 1996, Spectral-domain decomposition methods for the solution of acoustic and elastic wave equations: *Geophysics*, **61**, no. 04, 1160–1174.
- Faria, E. L., and Stoffa, P. L., 1994a, Finite-difference modeling in transversely isotropic media: *Geophysics*, **59**, no. 02, 282–289.
- Faria, E. L., and Stoffa, P. L., 1994b, Traveltime computation in transversely isotropic media: *Geophysics*, **59**, no. 02, 272–281.
- Fedi, M., Quarta, T., and de Santis, A., 1997, Inherent power-law behavior of magnetic field power spectra from a Spector and Grant ensemble: *Geophysics*, **62**, no. 04, 1143–1150.
- Fedi, M., 1997, Estimation of density, magnetization, and depth to source: A nonlinear and noniterative 3-D potential-field method: *Geophysics*, **62**, no. 03, 814–830.
- Fei, T., and Larner, K., 1995, Elimination of numerical dispersion in finite-difference modeling and migration by flux-corrected transport: *Geophysics*, **60**, no. 06, 1830–1842.

- Fischer, R., and Lees, J. M., 1993, Shortest path ray tracing with sparse graphs: *Geophysics*, **58**, no. 07, 987–996.
- Fisher, E., McMechan, G. A., and Annan, A. P., 1992a, Acquisition and processing of wide-aperture ground-penetrating radar data: *Geophysics*, **57**, no. 03, 495–504.
- Fisher, E., McMechan, G. A., Annan, A. P., and Cosway, S. W., 1992b, Examples of reverse-time migration of single-channel, ground-penetrating radar profiles: *Geophysics*, **57**, no. 04, 577–586.
- Fisher, R., Mason, I. M., and Mosher, C. C., 1993, Cavitation-induced seismic events caused by small explosions in boreholes: *Geophysics*, **58**, no. 11, 1565–1572.
- Flores, C., and Edwards, R. N., 1992, Approximate calculation of low-frequency three-dimensional magnetotelluric responses using a multiple plate model: *Geophysics*, **57**, no. 01, 106–115.
- Forster, A., Schrotter, J., Merriam, D. F., and Blackwell, D. D., 1997, Application of optical-fiber temperature logging - An example in a sedimentary environment: *Geophysics*, **62**, no. 04, 1107–1113.
- Foster, D. J., and Mosher, C. C., 1992, Suppression of multiple reflections using the Radon transform: *Geophysics*, **57**, no. 03, 386–395.
- Foster, M. S., Nunn, K. R., Lewis, S. A., and Reynolds, D. J., 1997, Zero-phasing seismic data without wells in offshore West Africa: Reducing uncertainty and variability of the wavelet: *Geophysics*, **62**, no. 01, 352–361.
- Fournier, F., and Derain, J. F., 1995, A statistical methodology for deriving reservoir properties from seismic data: *Geophysics*, **60**, no. 05, 1437–1450.
- Fraiha, S. G. C., and Silva, J. B. C., 1994, Factor analysis of ambiguity in geophysics: *Geophysics*, **59**, no. 07, 1083–1091.
- Frangos, W., 1997, Electrical detection of leaks in lined waste disposal ponds: *Geophysics*, **62**, no. 06, 1737–1744.
- Fu, L.-Y., Mu, Y. G., and Yang, H. J., 1997, Forward problem of nonlinear Fredholm integral equation in reference medium via velocity-weighted wavefield function: *Geophysics*, **62**, no. 02, 650–656.
- Furumura, T., and Takenaka, H., 1995, A wraparound elimination technique for the pseudospectral wave synthesis using an antiperiodic extension of the wavefield (short note): *Geophysics*, **60**, no. 01, 302–307.
- Gaiser, J. E., 1996, Multicomponent Vp/Vs correlation analysis: *Geophysics*, **61**, no. 04, 1137–1149.
- Gajewski, D., and Psencik, I., 1992, Vector wavefields for weakly attenuating anisotropic media by the ray method: *Geophysics*, **57**, no. 01, 27–38.

- Garcia-Abdeslem, J., and Ness, G. E., 1994, Inversion of the power spectrum from magnetic anomalies: *Geophysics*, **59**, no. 03, 391–401.
- Garcia-Abdeslem, J., 1992, Gravitational attraction of a rectangular prism with depth-dependent density (short note): *Geophysics*, **57**, no. 03, 470–473.
- Garcia-Abdeslem, J., 1995, Inversion of the power spectrum from gravity anomalies of prismatic bodies: *Geophysics*, **60**, no. 06, 1698–1703.
- Garrouch, A. A., and Sharma, M. M., 1994, Influence of clay content, salinity, stress, and wettability on the dielectric properties of brine-saturated rocks: 10Hz to 10 MHz: *Geophysics*, **59**, no. 06, 909–917.
- Gay, S. P. J., 1992, Epigenetic versus syngenetic magnetite as a cause of magnetic anomalies: *Geophysics*, **57**, no. 01, 60–68.
- Gelinsky, S., and Shapiro, S. A., 1997, Poroelastic Backus averaging for anisotropic layered fluid- and gas-saturated sediments: *Geophysics*, **62**, no. 06, 1867–1878.
- Gelius, L. J., 1995, Limited-view diffraction tomography in a nonuniform background: *Geophysics*, **60**, no. 02, 580–588.
- Gendzwill, D. J., and Brehm, R., 1993, High-resolution seismic reflections in a potash mine: *Geophysics*, **58**, no. 05, 741–748.
- Geoltrain, S., and Brac, J., 1993, Can we image complex structures with first-arrival traveltimes?: *Geophysics*, **58**, no. 04, 564–575.
- Gershenson, M., 1997, Simple interpretation of time-domain electromagnetic sounding using similarities between wave and diffusion propagation: *Geophysics*, **62**, no. 03, 763–774.
- Gibson, R. L. J., and Peng, C., 1994, Low and high frequency radiation from seismic sources in cased boreholes (short note): *Geophysics*, **59**, no. 11, 1780–1785.
- Gibson, R. L. J., 1994, Radiation from seismic sources in cased and cemented boreholes: *Geophysics*, **59**, no. 04, 518–533.
- Gist, G. A., Thompson, A. H., Katz, A. J., and Berry, M. J. I., 1993, Wave velocities in sandstones from elastic network simulations: *Geophysics*, **58**, no. 03, 334–343.
- Gist, G. A., 1994, Interpreting laboratory velocity measurements in partially gas-saturated rocks: *Geophysics*, **59**, no. 07, 1100–1109.
- Gochioco, L. M., 1992, Modeling studies of interference reflections in thin-layered media bounded by coal seams: *Geophysics*, **57**, no. 09, 1209–1216.
- Goforth, T., and Hayward, C., 1992, Seismic reflection investigations of a bedrock surface buried under alluvium: *Geophysics*, **57**, no. 09, 1217–1227.

- Goldman, M., Tabarovsky, L., and Rabinovich, M., 1994, On the influence of 3-D structures in the interpretation of transient electromagnetic sounding data: *Geophysics*, **59**, no. 06, 889–901.
- Gomez-Trevino, E., and Mondragon, M., 1995, Uneven effect of random noise in magnetotelluric apparent resistivity definitions (short note): *Geophysics*, **60**, no. 04, 1238–1242.
- Goodman, D., 1994, Ground-penetrating radar simulation in engineering and archaeology: *Geophysics*, **59**, no. 02, 224–232.
- Graebner, M., 1992, Plane-wave reflection and transmission coefficients for a transversely isotropic solid (short note): *Geophysics*, **57**, no. 11, 1512–1519.
- Graebner, M. J., 1993, Discussion on 'Imaging salt with turning seismic waves', by D. hale, N. R. hill, and J. Stefani (geo-57-11-1453-1462) with reply by authors: *Geophysics*, **58**, no. 08, 1205–1206.
- Granser, H., 1994, Shot gather DMO in the double log domain (short note): *Geophysics*, **59**, no. 08, 1305–1307.
- Grasmueck, M., 1996, 3-D ground-penetrating radar applied to fracture imaging in gneiss: *Geophysics*, **61**, no. 04, 1050–1064.
- Grasty, R. L., 1997, Radon emanation and soil moisture effects on airborne gamma-ray measurements: *Geophysics*, **62**, no. 05, 1379–1385.
- Grauch, V. J. S., 1993, Limitations on digital filtering of the DNAG magnetic data set for the conterminous U.S: *Geophysics*, **58**, no. 09, 1281–1296.
- Gray, S. H., and May, W. P., 1994, Kirchoff migration using eikonal equation travel-times: *Geophysics*, **59**, no. 05, 810–817.
- Greaves, R. J., Lesmes, D. P., Lee, J. M., and Toksoz, M. N., 1996, Velocity variations and water content estimated from multi-offset, ground-penetrating radar: *Geophysics*, **61**, no. 03, 683–695.
- Grechka, V. Y., and McMechan, G. A., 1996, 3-D two-point ray tracing for heterogeneous weakly transversely isotropic media: *Geophysics*, **61**, no. 06, 1883–1894.
- Grechka, V. Y., McMechan, G. A., and Volovodenko, V. A., 1996, Solving 1-D inverse problems by Chebyshev polynomial expansion: *Geophysics*, **61**, no. 06, 1758–1768.
- Greenhalgh, S. A., and Mason, I. M., 1995, Orientation of a downhole triaxial geophone (short note): *Geophysics*, **60**, no. 04, 1234–1237.
- Grosswig, S., Hurtig, E., and K[], K., 1996, Fiber optic temperature sensing: A new tool for temperature measurements in boreholes: *Geophysics*, **61**, no. 04, 1065–1067.

- Guerin, R., Tabbagh, A., and Andrieux, P., 1994, Field and/or resistivity mapping in MT-VLF and implications for data processing: *Geophysics*, **59**, no. 11, 1695–1712.
- Guiziou, J. L., Mallet, J. L., and Madariaga, R., 1996, 3-D seismic reflection tomography on top of the GOCAD depth modeler: *Geophysics*, **61**, no. 05, 1499–1510.
- Guspi, F., 1992, Three-dimensional Fourier gravity inversion with arbitrary density contrast (short note): *Geophysics*, **57**, no. 01, 131–135.
- Guspi, F., 1993, Noniterative nonlinear gravity inversion: *Geophysics*, **58**, no. 07, 935–940.
- Ha, S. T. T., Zhou, H., Sheriff, R. E., and McDonald, J. A., 1996, Fourier transform approximations for sweeps and phase-encoded sweeps: *Geophysics*, **61**, no. 05, 1440–1452.
- Hagrey, S. A. A., 1994, Electric study of fracture anisotropy at Falkenberg, Germany: *Geophysics*, **59**, no. 06, 881–888.
- Haldorsen, J., Miller, D., and Walsh, J., 1994, Multichannel Weiner deconvolution of vertical seismic profiles: *Geophysics*, **59**, no. 10, 1500–1511.
- Haldorsen, J. B. U., Miller, D. E., and Walsh, J. J., 1995, Walk-away VSP using drill noise as a source: *Geophysics*, **60**, no. 04, 978–997.
- Hale, D., and Artley, C., 1993, Squeezing dip moveout for depth-variable velocity: *Geophysics*, **58**, no. 02, 257–264.
- Hale, D., Hill, N. R., and Stefani, J., 1992, Imaging salt with turning seismic waves: *Geophysics*, **57**, no. 11, 1453–1462.
- Halpenny, J., and Darbha, D., 1995, Airborne gravity tests over Lake Ontario: *Geophysics*, **60**, no. 01, 61–65.
- Hanneson, J. E., 1992, The transient EM step response of a dipping plate in a conductive half-space: *Geophysics*, **57**, no. 09, 1116–1126.
- Hansen, R. O., and Simmonds, M., 1993, Multiple-source Werner deconvolution: *Geophysics*, **58**, no. 12, 1792–1800.
- Hansen, R. O., 1993, Interpretive gridding by anisotropic kriging: *Geophysics*, **58**, no. 10, 1491–1497.
- Hardage, B. A., Levey, R. A., Pendleton, V., Simmons, J., and Edson, R., 1994, 3-D seismic case history evaluating fluviially deposited thin-bed reservoirs in a gas-producing property: *Geophysics*, **59**, no. 11, 1650–1665.
- Hardage, B. A., Carr, D. L., Lancaster, D. E., Simmons, J. L. J., Elphick, R. Y., Pendleton, V. M., and Johns, R. A., 1996a, 3-D seismic evidence of the effects of carbonate karst collapse on overlying clastic stratigraphy and reservoir compartmentalization: *Geophysics*, **61**, no. 05, 1336–1350.

- Hardage, B. A., Carr, D. L., Lancaster, D. E., Simmons, J. L. J., Hamilton, D. S., Elphick, R. Y., Oliver, K. L., and Johns, R. A., 1996b, 3-D seismic imaging and seismic attribute analysis of genetic sequences deposited in low-accommodation conditions: *Geophysics*, **61**, no. 05, 1351–1362.
- Hargreaves, N. D., 1992a, Air-gun signatures and the minimum-phase assumption: *Geophysics*, **57**, no. 02, 263–271.
- Hargreaves, N. D., 1992b, Similarity and the inverse Q filter: Some simple algorithms for inverse Q filtering (short note): *Geophysics*, **57**, no. 07, 944–947.
- Harris, C. E., and McMechan, G. A., 1992, Using downward continuation to reduce memory requirements in reverse-time migration (short note): *Geophysics*, **57**, no. 06, 848–853.
- Harris, J. M., and Wang, G. Y., 1996, Diffraction tomography for inhomogeneities in layered background medium: *Geophysics*, **61**, no. 02, 570–583.
- Harris, J. M., Nolen-Hoeksema, R. C., Langan, R. T., van Schaack, M., Lazaratos, S. K., and Rector, J. W. I., 1995, High-resolution crosswell imaging of a West Texas carbonate reservoir: Part 1: Project summary and interpretation: *Geophysics*, **60**, no. 03, 667–681.
- Harris, J. B., 1996, Shear-wave splitting in Quaternary sediments: Neotectonic implications in the New Madrid seismic zone: *Geophysics*, **61**, no. 06, 1871–1882.
- Harrison, M. P., and Stewart, R. R., 1993, Poststack migration of P-SV seismic data: *Geophysics*, **58**, no. 08, 1127–1135.
- Haslund, E., 1996, Dielectric dispersion of salt-water saturated porous glass containing thin glass plates: *Geophysics*, **61**, no. 03, 722–734.
- Hatherly, P. J., Urosevic, M., Lambourne, A., and Evans, B. J., 1994, Simple approach to calculating refraction statics corrections (short note): *Geophysics*, **59**, no. 01, 156–160.
- Hedley, J. P., 1992, 3-D migration via McClellan transformations on hexagonal grids: *Geophysics*, **57**, no. 08, 1048–1053.
- Helbig, K., 1993, Longitudinal directions in media of arbitrary anisotropy: *Geophysics*, **58**, no. 05, 680–691.
- Hensel, E. G., 1992, Discussion on 'An exact solution for the gravity curvature (bullard B) correction' (geo-56-8-1179-1184), by T. R. LaFehr: *Geophysics*, **57**, no. 08, 1093–1094.
- Herman, G. C., 1992, Generalization of travelt ime inversion: *Geophysics*, **57**, no. 01, 9–14.

- Herrick, D. C., and Kennedy, W. D., 1994, Electrical efficiency: A pore geometric theory for interpretation of the electrical properties of reservoir rocks: *Geophysics*, **59**, no. 06, 918–927.
- Hildebrand, S. T., and McMechan, G. A., 1994a, 1-D seismic inversion of dual wave-field data: Part I: Nonuniqueness and stability: *Geophysics*, **59**, no. 05, 782–788.
- Hildebrand, S. T., and McMechan, G. A., 1994b, 1-D seismic inversion of dual wave-field data: Part II: A Gulf of Mexico example: *Geophysics*, **59**, no. 05, 789–800.
- Hinds, R. C., Anderson, N. L., and Kuzmiski, R., 1993a, An integrated surface seismic/seismic profile case study: Simonette area, Alberta, Canada: *Geophysics*, **58**, no. 11, 1676–1688.
- Hinds, R. C., Kuzmiski, R., Anderson, N. L., and Richards, B. R., 1993b, An integrated surface and borehole seismic case study: Fort St. John graben area, Alberta, Canada: *Geophysics*, **58**, no. 11, 1662–1675.
- Holstein, H., and Ketteridge, B., 1996, Gravimetric analysis of uniform polyhedra: *Geophysics*, **61**, no. 02, 357–364.
- Hordt, A., Druskin, V. L., Knizhnerman, L., and Strack, K. M., 1992, Interpretation of 3-D effects in long-offset transient electromagnetic (lotem) soundings in the Munsterland area, Germany: *Geophysics*, **57**, no. 09, 1127–1137.
- Hornby, B. E., Murphy, W. F. I., Liu, H. L., and Hsu, K., 1992, Reservoir sonics: A North Sea case study: *Geophysics*, **57**, no. 01, 146–160.
- Hornby, B. E., Schwartz, L. M., and Hudson, J. A., 1994, Anisotropic effective-medium modeling of the elastic properties of shales: *Geophysics*, **59**, no. 10, 1570–1583.
- Hornby, B. E., 1993, Tomographic reconstruction of near-borehole slowness using refracted borehole sonic arrivals: *Geophysics*, **58**, no. 12, 1726–1738.
- Hovem, J. M., 1995, Acoustic waves in finely layered media: *Geophysics*, **60**, no. 04, 1217–1221.
- Howard, A. Q. J., and Chew, W. C., 1992, Electromagnetic borehole fields in a layered, dipping bed environment with invasion: *Geophysics*, **57**, no. 03, 451–465.
- Hsu, K., and Esmersoy, C., 1992, Parametric estimation of phase and group slowness from sonic logging waveforms: *Geophysics*, **57**, no. 08, 978–985.
- Hsu, C.-J., and Schoenberg, M., 1993, Elastic waves through a simulated fractured medium: *Geophysics*, **58**, no. 07, 964–977.
- Hsu, S. K., Sibuet, J. C., and Shyu, C.-T., 1996, High-resolution detection of geologic boundaries from potential-field anomalies: An enhanced analytic signal technique: *Geophysics*, **61**, no. 02, 373–386.

- Hsu, Y. P., 1992, Multilayer dielectric inversion for electromagnetic propagation logging: *Geophysics*, **57**, no. 10, 1260–1269.
- Huang, H., and Fraser, D. C., 1996, The differential parameter method for multifrequency airborne resistivity mapping: *Geophysics*, **61**, no. 01, 100–109.
- Huang, K. Y., and Leu, D.-R., 1995, Recognition of Ricker wavelets by syntactic analysis: *Geophysics*, **60**, no. 05, 1541–1549.
- Huang, Z., Shimeld, J., Williamson, M., and Katsube, J., 1996, Permeability prediction with artificial neural network modeling in the Venture gas field, offshore eastern Canada: *Geophysics*, **61**, no. 02, 422–436.
- Hubral, P., Schleicher, J., and Tygel, M., 1993a, Three-dimensional primary zero-offset reflections: *Geophysics*, **58**, no. 05, 692–702.
- Hubral, P., Schleicher, J., Tygel, M., and Hanitzsch, C., 1993b, Determination of Fresnel zones from traveltimes measurements: *Geophysics*, **58**, no. 05, 703–712.
- Hubral, P., Tygel, M., and Schleicher, J., 1995, Geometrical-spreading and ray-caustic decomposition of elementary seismic waves: *Geophysics*, **60**, no. 04, 1195–1202.
- Hubral, P., Schleicher, J., and Tygel, M., 1996, A unified approach to 3-D seismic reflection imaging, part I: Basic concepts: *Geophysics*, **61**, no. 03, 742–758.
- Hyndman, D. W., and Harris, J. M., 1996, Traveltime inversion for the geometry of aquifer lithologies: *Geophysics*, **61**, no. 06, 1728–1737.
- Igel, H., Mora, P., and Rioulet, B., 1995, Anisotropic wave propagation through finite-difference grids: *Geophysics*, **60**, no. 04, 1203–1216.
- Ikelle, L. T., Yung, S. K., and Daube, F., 1993, 2-D random media with ellipsoidal autocorrelation functions: *Geophysics*, **58**, no. 09, 1359–1372.
- Jacoby, M., Dvorkin, J., and Liu, X., 1996, Short note - Elasticity of partially saturated frozen sand: *Geophysics*, **61**, no. 01, 288–293.
- Jannaud, L. R., Adler, P. M., and Jacquin, C. G., 1993, Spectral analysis and inversion of experimental codas: *Geophysics*, **58**, no. 03, 408–418.
- Jarchow, C. M., Catchings, R. D., and Lutter, W. J., 1994, Large-explosive source, wide-recording aperture, seismic profiling on the Columbia Plateau, Washington: *Geophysics*, **59**, no. 02, 259–271.
- Jekeli, C., 1993, A review of gravity gradiometer survey system data analyses: *Geophysics*, **58**, no. 04, 508–514.
- Jeng, Y., 1995, Shallow seismic investigation of a site with poor reflection quality: *Geophysics*, **60**, no. 06, 1715–1726.
- Jervis, M., Sen, M. K., and Stoffa, P. L., 1996, Prestack migration velocity estimation using nonlinear methods: *Geophysics*, **61**, no. 01, 138–150.

- Jin, S., and Madariaga, R., 1994, Nonlinear velocity inversion by a two-step Monte Carlo method: *Geophysics*, **59**, no. 04, 577–590.
- Jo, C.-H., Shin, C., and Suh, J. H., 1996, An optimal 9-point, finite-difference, frequency-space, 2-D scalar wave extrapolator: *Geophysics*, **61**, no. 02, 529–537.
- Johnson, D. T., 1994, Understanding air gun bubble behavior: *Geophysics*, **59**, no. 11, 1729–1734.
- Jones, F. W., and Pascal, F., 1995, Numerical calculations of the thermal conductivities of composites: A 3-D model: *Geophysics*, **60**, no. 04, 1038–1050.
- Juhlin, C., and Young, R., 1993, Implications of thin layers for amplitude variation with offset (avo) studies (short note): *Geophysics*, **58**, no. 08, 1200–1204.
- Juhlin, C., 1992, Discussion on 'Seismic amplitude anomalies and AVO analyses at Mestena Grande field, Jim Hogg Co., Texas', by R. C. Burnett (geo-55-8-1015-1025): *Geophysics*, **57**, no. 12, 1641–1642.
- Juhlin, C., 1995, Imaging of fracture zones in the Finnsjön area, central Sweden, using the seismic reflection method: *Geophysics*, **60**, no. 01, 66–75.
- Jurado, F., Cuer, M., and Richard, V., 1995a, 1-D layered media: Part 1: 3-D elastic modeling: *Geophysics*, **60**, no. 06, 1843–1856.
- Jurado, F., Cuer, M., and Richard, V., 1995b, 1-D layered media: Part 2: Layer-based waveform inversion: *Geophysics*, **60**, no. 06, 1857–1869.
- Kagansky, A., and Loewenthal, D., 1993, Estimation of a point source wavelet in elastic media: *Geophysics*, **58**, no. 08, 1195–1199.
- Kaufman, A. A., and Wightman, W. E., 1993, A transmission line for electrical logging through casing: *Geophysics*, **58**, no. 12, 1739–1747.
- Kaufman, A. A., Karinsky, A. D., and Wightman, W. E., 1996, Influence of inductive effect on measurements of resistivity through casing: *Geophysics*, **61**, no. 01, 34–42.
- Keating, P., and Zerbo, L., 1996, An improved technique for reduction-to-the-pole at low latitudes: *Geophysics*, **61**, no. 01, 131–137.
- Keating, P., 1992, Density mapping from gravity data using the Walsh transform (short note): *Geophysics*, **57**, no. 04, 637–642.
- Kebaili, A., and Schmitt, D. R., 1996, Velocity anisotropy observed in wellbore seismic arrivals: Combined effects of intrinsic properties and layering: *Geophysics*, **61**, no. 01, 12–20.
- Keiswetter, D. A., and Steeples, D. W., 1995, A field investigation of source parameters for the sledgehammer: *Geophysics*, **60**, no. 04, 1051–1057.

- Kellett, R., Bishop, J., and van Reed, E., 1993, The effects of source polarization in CSAMT data over two massive sulfide deposits in Australia: *Geophysics*, **58**, no. 12, 1764–1772.
- Kennett, B. L. N., 1993, A two-layer stacking procedure to enhance converted waves: *Geophysics*, **58**, no. 07, 997–1001.
- Kent, G. M., Kim, I. I., Harding, A. J., Detrick, R. S., and Orcutt, J. A., 1996, Suppression of sea-floor scattered energy using a dip-moveout approach - Application to the mid-ocean ridge environment: *Geophysics*, **61**, no. 03, 821–834.
- Kepic, A. W., and Russell, R. D., 1996, Short note - Fiber optic time break: *Geophysics*, **61**, no. 01, 294–298.
- Kepic, A. W., Maxwell, M., and Russell, R. D., 1995, Field trials of a seismoelectric method for detecting massive sulfides: *Geophysics*, **60**, no. 02, 365–373.
- Kerner, C., and Harris, P. E., 1994, Scattering attenuation in sediments modeled by ARMA processes—validation of simple Q models: *Geophysics*, **59**, no. 12, 1813–1826.
- Kerner, C., 1992, Anisotropy in sedimentary rocks modeled as random media: *Geophysics*, **57**, no. 04, 564–576.
- Kessler, D., and Chan, W. K., 1993, DMO velocity analysis with Jacobowicz's dip-decomposition method: *Geophysics*, **58**, no. 10, 1517–1524.
- Khalil, A. A., Stewart, R. R., and Henley, D. C., 1993, Full-waveform processing and interpretation of kilohertz cross-well seismic data: *Geophysics*, **58**, no. 09, 1248–1256.
- Khesin, B. E., and Eppelbaum, L. V., 1994, Near-surface thermal prospecting: Review of processing and interpretation: *Geophysics*, **59**, no. 05, 744–752.
- Kim, H. S., and Lee, K., 1996, Response of a multilayered earth with layers having exponentially varying resistivities: *Geophysics*, **61**, no. 01, 180–191.
- Kim, N. W., and Seriff, A. J., 1992, Marine PSSP reflections with a bottom velocity transition zone: *Geophysics*, **57**, no. 01, 161–170.
- Kim, K. Y., Wrolstad, K. H., and Aminzadeh, F., 1993, Effects of transverse isotropy on P-wave AVO for gas sands: *Geophysics*, **58**, no. 06, 883–888.
- Kim, J. S., Moon, W. M., Lodha, G., Serzu, M., and Soonawala, N., 1994, Imaging of reflection seismic energy for mapping shallow fracture zones in crystalline rocks: *Geophysics*, **59**, no. 05, 753–765.
- Kirlin, R. L., 1992, The relationship between semblance and eigenstructure velocity estimators: *Geophysics*, **57**, no. 08, 1027–1033.

- Klimentos, T., 1995, Attenuation of P- and S-waves as a method of distinguishing gas and condensate from oil and water: *Geophysics*, **60**, no. 02, 447–458.
- Knapp, R. W., 1993, Energy distribution in wavelets and implications on resolving power: *Geophysics*, **58**, no. 01, 39–46.
- Kneib, G., and Kerner, C., 1993, Accurate and efficient seismic modeling in random media: *Geophysics*, **58**, no. 04, 576–588.
- Kneib, G., and Shapiro, S. A., 1995, Viscoacoustic wave propagation in 2-D random media and separation of absorption and scattering attenuation: *Geophysics*, **60**, no. 02, 459–467.
- Knight, R., and Abad, A., 1995, Rock/water interaction in dielectric properties: Experiments with hydrophobic sandstones: *Geophysics*, **60**, no. 02, 431–436.
- Knowlton, K. B., and Spencer, T. W., 1996, Polarization measurement uncertainty on three-component VSP: *Geophysics*, **61**, no. 02, 594–599.
- Kosik, D. W., 1993, Propagation of a nonlinear seismic pulse in an anelastic homogeneous medium: *Geophysics*, **58**, no. 07, 949–963.
- Kosloff, D., Sherwood, J., Koren, Z., MacHet, E., and Falkovitz, Y., 1996, Velocity and interface depth determination by tomography of depth migrated gathers: *Geophysics*, **61**, no. 05, 1511–1523.
- Kovacs, A., Holladay, J. S., and Bergeron, C. J. J., 1995, The footprint/altitude ratio for helicopter electromagnetic sounding of sea-ice thickness: Comparison of theoretical and field estimates: *Geophysics*, **60**, no. 02, 374–380.
- Krail, P. M., 1994, Measurements of cable shape in a cross current (short note): *Geophysics*, **59**, no. 07, 1156–1159.
- Krebes, E. S., and Quiroga-Goode, G., 1994, Standard finite-difference scheme for the time-domain computation of anelastic wavefields: *Geophysics*, **59**, no. 02, 290–296.
- Krohn, C. E., and Chen, S. T., 1992, Comparisons of downhole geophones and hydrophones: *Geophysics*, **57**, no. 06, 841–847.
- Kurkjian, A. L., Coates, R. T., White, J. E., and Schmidt, H., 1994, Finite-difference and frequency-wavenumber modeling of seismic monopole sources and receivers in fluid-filled boreholes: *Geophysics*, **59**, no. 07, 1053–1064.
- Kwok, Y. K., and Beyer, L. A., 1993, Gravity due to a body with rotational symmetry about a vertical axis (short note): *Geophysics*, **58**, no. 02, 298–306.
- LaBrecque, D. J., Miletto, M., Daily, W., Ramirez, A., and Owen, E., 1996, The effects of noise on Occam's inversion of resistivity tomography data: *Geophysics*, **61**, no. 02, 538–548.

- Lafond, C. F., and Levander, A. R., 1993, Migration moveout analysis and depth focusing: *Geophysics*, **58**, no. 01, 91–100.
- Lamb, W. J., Zhu, X., McMechan, G. A., Greenberg, M. L., and Castagna, J. P., 1992, Elastic wave propagation in composite media: *Geophysics*, **57**, no. 09, 1155–1165.
- Lambare, G., Virieux, J., Mandariaga, R., and Jin, S., 1992, Iterative asymptotic inversion in the acoustic approximation: *Geophysics*, **57**, no. 09, 1138–1154.
- Landro, M., and Sollie, R., 1992, Source signature determination by inversion: *Geophysics*, **57**, no. 12, 1633–1640.
- Landro, M., Mittet, R., and Sollie, R., 1993a, Implementing measured source signatures in a coarse-grid, finite-difference modeling scheme: *Geophysics*, **58**, no. 12, 1852–1860.
- Landro, M., Zaalberg-Metselaar, G., Owren, B., and Vaage, S., 1993b, Modeling of water-gun signatures: *Geophysics*, **58**, no. 01, 101–109.
- Landro, M., Langhammer, J., Sollie, R., Amundsen, L., and Berg, E., 1994, Source signature determination from ministreamer data: *Geophysics*, **59**, no. 08, 1261–1269.
- Landrum, R. A., Brook, R. A., and Sallas, J. J., 1994, Polarity convention for vibratory source and recording systems (special report): *Geophysics*, **59**, no. 02, 315–321.
- Langel, R. A., 1992, International Geomagnetic Reference Field 1991 revision, International Association of Geomagnetism and Aeronomy (iaga) Division V, working group 8: Analysis of the main field and secular variation: *Geophysics*, **57**, no. 07, 956–959.
- Langhammer, J., and Landro, M., 1993, Experimental study of viscosity effects on air-gun signatures: *Geophysics*, **58**, no. 12, 1801–1808.
- Langhammer, J., Landrø, M., Martin, J., and Berg, E., 1995, Air-gun bubble damping by a screen: *Geophysics*, **60**, no. 06, 1765–1772.
- Larner, K., and Cohen, J. K., 1993, Migration error in transversely isotropic media with linear velocity variation in depth: *Geophysics*, **58**, no. 10, 1454–1467.
- Larner, K., 1993, Dip-moveout error in transversely isotropic media with linear velocity variation in depth: *Geophysics*, **58**, no. 10, 1442–1453.
- Larson, T. H., and Hsui, A. T., 1992, An analytical study of a two-layer transient thermal conduction problem as applied to soil temperature surveys: *Geophysics*, **57**, no. 02, 306–312.
- Lazaratos, S. K., Rector, J. W. I., Harris, J. M., and van Schaack, M., 1993, High-resolution, cross-well, reflection imaging: Potential and technical difficulties: *Geophysics*, **58**, no. 09, 1270–1280.

- Lazaratos, S. K., Harris, J. M., Rector, J. W. I., and van Schaack, M., 1995, High-resolution crosswell imaging of a West Texas carbonate reservoir: Part 4: Reflection imaging: *Geophysics*, **60**, no. 03, 702–711.
- Lazear, G. D., 1993, Mixed-phase wavelet estimation using fourth-order cumulants: *Geophysics*, **58**, no. 07, 1042–1051.
- Leao, J. W. D., Menezes, P. T. L., Beltrao, J. F., and Silva, J. B. C., 1996, Gravity inversion of basement relief constrained by the knowledge of depth at isolated points: *Geophysics*, **61**, no. 06, 1702–1714.
- Lee, T. C., and Damiata, B. N., 1995, Distortion in resistivity logging at shallow depth: *Geophysics*, **60**, no. 04, 1058–1069.
- Lee, K. H., and Xie, G. O., 1993, A new approach to imaging with low-frequency electromagnetic fields: *Geophysics*, **58**, no. 06, 780–796.
- Lee, W. B., and Zhang, L., 1992, Residual shot profile migration: *Geophysics*, **57**, no. 06, 815–822.
- Lee, D., Jackson, G. M., and Mason, I. M., 1993, Partially coherent migration: *Geophysics*, **58**, no. 09, 1301–1313.
- Lee, D. S., Lazaratos, S. K., Fitzgerald, G. N., and Imayoshi, T., 1995a, High-resolution crosswell seismic experiment with a large interwell spacing in a West Texas carbonate field: *Geophysics*, **60**, no. 03, 727–734.
- Lee, D. S., Lazaratos, S. K., and Walden, A. F., 1995b, Crosswell seismic study in a seismically poor data area: *Geophysics*, **60**, no. 03, 758–764.
- Lee, D. S., Stevenson, V. M., Johnston, P. F., and Mullen, C. E., 1995c, Time-lapse crosswell seismic tomography to characterize flow structure in the reservoir during the thermal stimulation: *Geophysics*, **60**, no. 03, 660–666.
- Lee, H. Y., Hyun, B.-K., and Kong, Y. S., 1996a, PC-based acquisition and processing of high-resolution marine seismic data: *Geophysics*, **61**, no. 06, 1804–1812.
- Lee, T. C., Biehler, S., Park, S. K., and Stephenson, W. J., 1996b, A seismic refraction and reflection study across the central San Jacinto basin, southern California: *Geophysics*, **61**, no. 05, 1258–1268.
- Lefevre, F., Nicoletis, L., Ansel, V., and Cllet, C., 1992, Detection and measure of the shear-wave birefringence from vertical seismic data: Theory and applications: *Geophysics*, **57**, no. 11, 1463–1481.
- Lefevre, F., Turpening, R., Caravana, C., Born, A., and Nicoletis, L., 1993, Vertical open fractures and shear-wave velocities derived from VSPs, full waveform acoustic logs, and televiewer data: *Geophysics*, **58**, no. 06, 818–834.
- Leppin, M., 1992, Electromagnetic modeling of 3-D sources over 2-D inhomogeneities in the time domain: *Geophysics*, **57**, no. 08, 994–1003.

- Leung, T. M., 1995, Examination of the optimum  $\alpha$  value by ray tracing: *Geophysics*, **60**, no. 04, 1151–1156.
- Leveille, J. P., and Nerf, R. B. J., 1994, Static delays in acoustic logging: *Geophysics*, **59**, no. 03, 362–370.
- Levin, F. K., 1992, P-wave anisotropy of the Pierre Shale (short note): *Geophysics*, **57**, no. 10, 1346–1347.
- Levin, F. K., 1994, Reflection point behavior in transversely isotropic solids: *Geophysics*, **59**, no. 02, 309–314.
- Levin, F. K., 1996, Anatomy of diving waves: *Geophysics*, **61**, no. 05, 1417–1424.
- Li, X. Y., and Crampin, S., 1993, Linear-transform techniques for processing shear-wave anisotropy in four-component seismic data: *Geophysics*, **58**, no. 02, 240–256.
- Li, J., and Larner, K., 1993, Differential-equation-based seismic data filtering: *Geophysics*, **58**, no. 12, 1809–1819.
- Li, Y., and Oldenburg, D. W., 1996, 3-D inversion of magnetic data: *Geophysics*, **61**, no. 02, 394–408.
- Li, X. P., Schott, W., and Ruter, H., 1995a, Frequency-dependent Q-estimation of Love-type channel waves and the application of Q-correction to seismograms: *Geophysics*, **60**, no. 06, 1773–1789.
- Li, X. P., Sollner, W., and Hubral, P., 1995b, Elimination of harmonic distortion in Vibroseis data: *Geophysics*, **60**, no. 02, 503–516.
- Li, X. G., Sacchi, M. D., and Ulrych, T. J., 1996, Wavelet transform inversion with prior scale information: *Geophysics*, **61**, no. 05, 1379–1385.
- Liao, Q., and McMechan, G. A., 1996, Multifrequency viscoacoustic modeling and inversion: *Geophysics*, **61**, no. 05, 1371–1378.
- Lichman, E., 1994, Discussion on 'Computing the Fourier transform in geophysics with the transform decomposition DFT', by M. Reed, H. Nguyen and R. Chambers (geo-58-11-1701-1709): *Geophysics*, **59**, no. 08, 1308–1310.
- Lilley, F. E. M., 1993, Magnetotelluric analysis using Mohr circles: *Geophysics*, **58**, no. 10, 1498–1506.
- Lindell, I. V., Ermutlu, M. E., Nikoskinen, K. I., and Eloranta, E. H., 1993a, Static image principle for anisotropic-conducting half-space problems: Impedance boundary: *Geophysics*, **58**, no. 12, 1773–1778.
- Lindell, I. V., Ermutlu, M. E., Nikoskinen, K. I., and Eloranta, E. H., 1993b, Static image principle for anisotropic-conducting half-space problems: PEC and PMC boundaries (short note): *Geophysics*, **58**, no. 12, 1861–1864.

- Liner, C. L., Bozkurt, G., and Cox, V. D., 1996, Shooting direction and crosswell seismic data acquisition: *Geophysics*, **61**, no. 05, 1489–1498.
- Liner, C. L., 1995, Some analytic aspects of a 2.5-D wave equation: *Geophysics*, **60**, no. 05, 1536–1540.
- Lines, L. R., Kelly, K. R., and Queen, J., 1992, Channel waves in cross-borehole data: *Geophysics*, **57**, no. 02, 334–342.
- Lines, L., Tan, H., Treitel, S., Beck, J., Chambers, R., Eager, J., Savage, C., Queen, J., Rizer, W., Buller, P., Cox, D., Sinton, J., Ballard, J., Kokkoros, G., Track, A., Guerendel, P., Harris, J., and Lazaratos, S. K., 1995, Integrated reservoir characterization: Beyond tomography: *Geophysics*, **60**, no. 02, 354–364.
- Lines, L., 1993, Ambiguity in analysis of velocity and depth (short note): *Geophysics*, **58**, no. 04, 596–597.
- Linville, A. F., and Meek, R. A., 1992, Canceling stationary sinusoidal noise: *Geophysics*, **57**, no. 11, 1493–1501.
- Linville, A. F., and Meek, R. A., 1995, A procedure for optimally removing localized coherent noise: *Geophysics*, **60**, no. 01, 191–203.
- Linville, A. F., 1994, Single-channel digital filter design for seismic applications: *Geophysics*, **59**, no. 10, 1584–1592.
- Liu, G., and Asten, M. W., 1993, Fast approximate solutions of transient EM response to a target buried beneath a conductive overburden: *Geophysics*, **58**, no. 06, 810–817.
- Liu, G., and Becker, A., 1992, Evaluation of terrain effects in AEM surveys using the boundary element method: *Geophysics*, **57**, no. 02, 272–278.
- Liu, Z., and Bleistein, N., 1995, Migration velocity analysis: Theory and an iterative algorithm: *Geophysics*, **60**, no. 01, 142–153.
- Liu, Q. H., and Chang, C., 1996, Compressional head waves in attenuative formations: Forward modeling and inversion: *Geophysics*, **61**, no. 06, 1908–1920.
- Liu, C., and Stock, J. M., 1993, Quantitative determination of uncertainties in seismic refraction prospecting: *Geophysics*, **58**, no. 04, 553–563.
- Liu, Q. H., 1993, Electromagnetic field generated by an off-axis source in a cylindrically layered medium with an arbitrary number of horizontal discontinuities: *Geophysics*, **58**, no. 05, 616–625.
- Livelybrooks, D., Mareschal, M., Blais, E., and Smith, J. T., 1996, Magnetotelluric delineation of the Trillabelle massive sulfide body in Sudbury, Ontario: *Geophysics*, **61**, no. 04, 971–986.

- Loke, M. H., and Barker, R. D., 1995, Least-squares deconvolution of apparent resistivity pseudosection: *Geophysics*, **60**, no. 06, 1682–1690.
- Lortzer, G. J. M., and Berkhout, A. J., 1992, An integrated approach to lithologic inversion - Part I: Theory: *Geophysics*, **57**, no. 02, 233–244.
- Lucet, N., and Zinszner, B., 1992, Effects of heterogeneities and anisotropy on sonic and ultrasonic attenuation in rocks: *Geophysics*, **57**, no. 08, 1018–1026.
- Lunardini, V. J., 1992, Discussion on 'An analytical study of a two-layer transient thermal conduction problem as applied to soil temperature surveys', by T. H. Larson and A. T. Hsui (geo-57-2-306-312): *Geophysics*, **57**, no. 12, 1644–1645.
- Lutter, W. J., Catchings, R. D., and Jarchow, C. M., 1994, Image of the Columbia Plateau from inversion of high-resolution seismic data: *Geophysics*, **59**, no. 08, 1278–1289.
- Lynn, W., MacKay, S., and Beasley, C. J., 1993, Efficient migration through complex water-bottom topography: *Geophysics*, **58**, no. 03, 393–398.
- MacBeth, C., Zeng, X., Yardley, G., and Crampin, S., 1994, Interpreting data matrix asymmetry in near-offset, shear-wave VSP data: *Geophysics*, **59**, no. 02, 176–191.
- MacKay, S., and Abma, R., 1992, Imaging and velocity estimation with depth-focusing analysis: *Geophysics*, **57**, no. 12, 1608–1622.
- MacKay, S., and Abma, R., 1993, Depth-focusing analysis using a wavefront-curvature criterion: *Geophysics*, **58**, no. 08, 1148–1156.
- Mackie, R. L., and Madden, T. R., 1993, Conjugate direction relaxation solutions for 3-D magnetotelluric modeling (short note): *Geophysics*, **58**, no. 07, 1052–1057.
- Mackie, R. L., Madden, T. R., and Wannamaker, P. E., 1993, Three-dimensional magnetotelluric modeling using difference equations - Theory and comparisons to integral equation solutions: *Geophysics*, **58**, no. 02, 215–226.
- MacQueen, J. D., and LaFehr, T. R., 1992, Discussion on 'The generalized gravity anomaly: Endoscopic microgravity' (geo-56-5-712-723), by J. Lakshmanan with reply by the author and a review by H. L. Yarger: *Geophysics*, **57**, no. 08, 1095–1097.
- Magnier, S. A., Mora, P., and Tarantola, A., 1994, Finite differences on minimal grids: *Geophysics*, **59**, no. 09, 1435–1443.
- Maher, M. J., 1992, Transient electromagnetic surveys in the Okiep district: *Geophysics*, **57**, no. 05, 736–744.
- Mahrer, K. D., and List, D. F., 1995, Radio frequency electromagnetic tunnel detection and delineation at the Otay Mesa site: *Geophysics*, **60**, no. 02, 413–422.

- Mahrer, K. D., and Zook, B. J., 1993, A field test of an electrodeless arc discharge, borehole seismic source: *Geophysics*, **58**, no. 11, 1558–1564.
- Mahrer, K. D., 1993, Some considerations when abstracting: *Geophysics*, **58**, no. 01, 10–11.
- Mallick, S., 1993, A simple approximation to the P-wave reflection coefficient and its implication in the inversion of amplitude variation with offset data: *Geophysics*, **58**, no. 04, 544–552.
- Mallick, S., 1995, Model-based inversion of amplitude-variations-with-offset data using a genetic algorithm: *Geophysics*, **60**, no. 04, 939–954.
- Mao, W., and Gubbins, D., 1995, Simultaneous determination of time delays and stacking weights in seismic array beamforming: *Geophysics*, **60**, no. 02, 491–502.
- Marcotte, D. L., Hardwick, C. D., and Nelson, J. B., 1992, Automated interpretation of horizontal magnetic gradient profile data: *Geophysics*, **57**, no. 02, 288–295.
- Marfurt, K. J., Schneider, R. V., and Mueller, M. C., 1996, Pitfalls of using conventional and discrete Radon transforms on poorly sample data: *Geophysics*, **61**, no. 05, 1467–1482.
- Mariano, J., and Hinze, W. J., 1993, Modeling complexly magnetized two-dimensional bodies of arbitrary shape: *Geophysics*, **58**, no. 05, 637–644.
- Marion, D., Nur, A., Yin, H., and Han, D., 1992, Compressional velocity and porosity in sand-clay mixtures: *Geophysics*, **57**, no. 04, 554–563.
- Marion, D., Mukerji, T., and Mavko, G., 1994, Scale effects on velocity dispersion: From ray to effective-medium theories in stratified media: *Geophysics*, **59**, no. 10, 1613–1619.
- Mark, N., 1992, Case history: Seismic exploration in Egypt's eastern desert: *Geophysics*, **57**, no. 02, 296–305.
- Mars, J., and Rector, J. W. I., 1995, Discussion on 'Linear and parabolic tau-p transforms revisited', by B. Zhou and S. A. Greenhalgh with reply and response (geo-59-7-1133-1149): *Geophysics*, **60**, no. 02, 611–613.
- Marson, I., and Klingele, E. E., 1993, Advantages of using the vertical gradient of gravity for 3-D interpretation: *Geophysics*, **58**, no. 11, 1588–1595.
- Marson, I., and Klingele, E. E., 1994, Discussion on 'Advantages of using the vertical gradient of gravity for 3-D interpretation', by Craig Ferris (geo-58-11-1588-1595): *Geophysics*, **59**, no. 11, 1786–1813.
- Martinez, R. D., 1993, Wave propagation effects on amplitude variation with offset measurements: A modeling study: *Geophysics*, **58**, no. 04, 534–543.

- Martinson, D. G., and Hopper, J. R., 1992, Nonlinear seismic trace interpolation: *Geophysics*, **57**, no. 01, 136–145.
- Mason, I. M., Jackson, G. M., Lee, D., and Campbell, D. S., 1992, Surface-to-borehole fault imaging in a buried horizontal waveguide - An experimental study in the southern North Sea: *Geophysics*, **57**, no. 04, 532–542.
- Mathisen, M. E., Cunningham, P., Shaw, J., Vasiliou, A. A., Justice, J. H., and Guinzy, N. J., 1995a, Crosswell seismic radial survey tomograms and the 3-D interpretation of a heavy oil steamflood: *Geophysics*, **60**, no. 03, 651–659.
- Mathisen, M. E., Vasiliou, A. A., Cunningham, P., Shaw, J., Justice, J. H., and Guinzy, N. J., 1995b, Time-lapse crosswell seismic tomogram interpretation: Implications for heavy oil reservoir characterization, thermal recovery process monitoring, and tomographic imaging technology: *Geophysics*, **60**, no. 03, 631–650.
- Matsuoka, T., and Ezaka, T., 1992, Ray tracing using reciprocity: *Geophysics*, **57**, no. 02, 326–333.
- Mavko, G., and Jizba, D., 1994, Relation between seismic P- and S-wave velocity dispersion in saturated rocks: *Geophysics*, **59**, no. 01, 87–92.
- Mavko, G., and Mukerji, T., 1995, Seismic pore space compressibility and Gassmann's relation: *Geophysics*, **60**, no. 06, 1743–1749.
- Mavko, G., and Nolen-Hoeksema, R., 1994, Estimating seismic velocities at ultrasonic frequencies in partially saturated rocks: *Geophysics*, **59**, no. 02, 252–258.
- Mavko, G., Chan, C., and Mukerji, T., 1995a, Fluid substitution: Estimating changes in  $V_p$  without knowing  $V_s$ : *Geophysics*, **60**, no. 06, 1750–1755.
- Mavko, G., Mukerji, T., and Godfrey, N., 1995b, Predicting stress-induced velocity anisotropy in rocks: *Geophysics*, **60**, no. 04, 1081–1087.
- McBride, J. H., Hobbs, R. W., Henstock, T. J., and White, R. S., 1994, On the 'wraparound' multiple problem of recording seismic reflections in deep water (short note): *Geophysics*, **59**, no. 07, 1160–1165.
- McCaffrey, R. J., McElroy, W. J., and Leslie, A. G., 1995, Exploration of a lignite-bearing basin in northern Ireland using ground magnetic and VLF-EM methods: *Geophysics*, **60**, no. 02, 408–412.
- McCormack, M. D., Zaucha, D. E., and Dushek, D. W., 1993, First-break refraction event picking and seismic data trace editing using neural networks: *Geophysics*, **58**, no. 01, 67–78.
- McPherson, B. J. O. L., and Chapman, D. S., 1996, Thermal analysis of the southern Powder River basin, Wyoming: *Geophysics*, **61**, no. 06, 1689–1701.

- Meadows, M. A., and Winterstein, D. F., 1994, Seismic detection of a hydraulic fracture from shear-wave VSP data at Lost Hills field, California: *Geophysics*, **59**, no. 01, 11–26.
- Medeiros, W. E., and Silva, J. B. C., 1995a, Gravity source moment inversion: A versatile approach to characterize position and 3-D orientation of anomalous bodies: *Geophysics*, **60**, no. 05, 1342–1353.
- Medeiros, W. E., and Silva, J. B. C., 1995b, Simultaneous estimation of total magnetization direction and 3-D spatial orientation: *Geophysics*, **60**, no. 05, 1365–1377.
- Medeiros, W. E., and Silva, J. B. C., 1996, Geophysical inversion using approximate equality constraints: *Geophysics*, **61**, no. 06, 1678–1688.
- Meek, R. A., and Vassiliou, A. A., 1992, Characterizing three-dimensional wavefield with high-resolution spectra: *Geophysics*, **57**, no. 04, 522–531.
- Meinardus, H. A., and Schleicher, K. L., 1993, 3-D time-variant dip moveout by the f-k method: *Geophysics*, **58**, no. 07, 1030–1041.
- Meju, M. A., 1996, Joint inversion of TEM and distorted MT soundings: Some effective practical considerations: *Geophysics*, **61**, no. 01, 56–65.
- Mendel, J. M., 1993, Discussion on 'Why don't we measure seismic signatures?' by A. Ziolkowski (geo-56-2-190-201) with replies by author: *Geophysics*, **58**, no. 03, 441–447.
- Mendonca, C. A., and Silva, J. B. C., 1993, A stable truncated series approximation of the reduction-to-the-pole operator: *Geophysics*, **58**, no. 08, 1084–1090.
- Mendonca, C. A., and Silva, J. B. C., 1994, Equivalent data concept applied to the interpolation of potential-field data: *Geophysics*, **59**, no. 05, 722–732.
- Mendonca, C. A., and Silva, J. B. C., 1995, Interpolation of potential-field data by equivalent layer and minimum curvature: A comparative analysis: *Geophysics*, **60**, no. 02, 399–407.
- Miao, X. G., Moon, W. M., and Milkereit, B., 1995, A multioffset, three-component VSP study in the Sudbury Basin: *Geophysics*, **60**, no. 02, 341–353.
- Michelena, R. J., Harris, J. M., and Muir, F., 1995, Crosswell tomographic estimation of elastic constants in heterogeneous transversely isotropic media: *Geophysics*, **60**, no. 03, 774–783.
- Michelena, R. J., 1993, Singular-value decomposition for cross-well tomography: *Geophysics*, **58**, no. 11, 1655–1661.
- Michelena, R. J., 1994, Elastic constants of transversely isotropic media from constrained aperture traveltimes: *Geophysics*, **59**, no. 04, 658–667.

- Middleton, M. F., 1993, A transient method of measuring the thermal properties of rocks: *Geophysics*, **58**, no. 03, 357–365.
- Mikulich, W., and Hale, D., 1992, Steep-dip  $v(z)$  imaging from an ensemble of Stolt-like migrations: *Geophysics*, **57**, no. 01, 51–59.
- Miller, R. D., Pullan, S. F., Steeples, D. W., and Hunter, J. A., 1992a, Field comparison of shallow seismic sources near Chino, California: *Geophysics*, **57**, no. 05, 693–709.
- Miller, R. D., Saenz, V., and Huggins, R. J., 1992b, Feasibility of CDP seismic reflection to image structures in a 220-m deep, 3-m thick coal zone near Palau, Coahuila, Mexico: *Geophysics*, **57**, no. 10, 1373–1380.
- Miller, R. D., Pullan, S. E., Steeples, D. W., and Hunter, J. A., 1994, Field comparison of shallow P-wave seismic sources near Houston, Texas: *Geophysics*, **59**, no. 11, 1713–1728.
- Miller, R. D., Anderson, N. L., Feldman, H. R., and Franseen, E. K., 1995, Vertical resolution of a seismic survey in stratigraphic sequences less than 100 m deep in southeastern Kansas: *Geophysics*, **60**, no. 02, 423–430.
- Miller, R. D., 1992, Normal moveout stretch mute on shallow-reflection data: *Geophysics*, **57**, no. 11, 1502–1507.
- Minty, B. R. S., 1992, Airborne gamma-ray spectrometric background estimation using full spectrum analysis: *Geophysics*, **57**, no. 02, 279–287.
- Mittet, R., and Hokstad, K., 1995, Transforming walk-away VSP data into reverse VSP data: *Geophysics*, **60**, no. 04, 968–977.
- Mittet, R., and Houlder, T., 1993, Sensitivity of reflected and transmitted seismic data: *Geophysics*, **58**, no. 11, 1621–1628.
- Mittet, R., and Renlie, L., 1996, High-order, finite-difference modeling of multipole logging in formations with anisotropic attenuation and elasticity: *Geophysics*, **61**, no. 01, 21–33.
- Mittet, R., Sollie, R., and Hokstad, K., 1995, Prestack depth migration with compensation for absorption and dispersion: *Geophysics*, **60**, no. 05, 1485–1494.
- Mittet, R., 1994, Implementation of the Kirchhoff integral for elastic waves in staggered-grid modeling schemes: *Geophysics*, **59**, no. 12, 1894–1901.
- Mohan, N. L., and Babu, L. A., 1994, Note on 2-D Hartley transform (short note): *Geophysics*, **59**, no. 07, 1150–1155.
- Mohan, N. L., and Babu, L. A., 1995, An analysis of 3-D analytic signal: *Geophysics*, **60**, no. 02, 531–536.
- Mohan, N. L., 1993, Discussion on 'Magnetic interpretation using the 3-D analytic signal', by W. R. Roest, J. Verhoef, and M. Pilkington (geo-51-1-116-125) with reply by authors: *Geophysics*, **58**, no. 08, 1214–1216.

- Mohan, N. L., 1995, Discussion on 'Pulse distortion in depth migration', by M. Tygel, J. Schleicher, and P. Hubral (geo-59-10-1561-1569): *Geophysics*, **60**, no. 06, 1947–1949.
- Moran, M. L., and Greenfield, R. J., 1993, Radar signature of 2.5-D tunnel: *Geophysics*, **58**, no. 11, 1573–1587.
- Moriya, H., and Niitsuma, H., 1996, Precise detection of a P-wave in low S/N signal by using time-frequency representations of a triaxial hodogram: *Geophysics*, **61**, no. 05, 1453–1466.
- Moriya, H., Nagano, K., and Niitsuma, H., 1994, Precise source location of AE doublets by spectral matrix analysis of triaxial hodogram: *Geophysics*, **59**, no. 01, 36–45.
- Morozov, I. B., and Smithson, S. B., 1996a, High-resolution velocity determination: Statistical phase correlation and image processing: *Geophysics*, **61**, no. 04, 1115–1127.
- Morozov, I. B., and Smithson, S. B., 1996b, Instantaneous polarization attributes and directional filtering: *Geophysics*, **61**, no. 03, 872–881.
- Moser, T. J., 1994, Migration using the shortest-path method: *Geophysics*, **59**, no. 07, 1110–1120.
- Mosher, C. C., Keho, T. H., Weglein, A. B., and Foster, D. J., 1996, The impact of migration on AVO: *Geophysics*, **61**, no. 06, 1603–1615.
- Mufti, I. R., Pita, J. A., and Huntley, R. W., 1996, Finite-difference depth migration of exploration-scale 3-D seismic data: *Geophysics*, **61**, no. 03, 776–794.
- Mufti, I. R., 1995, Pitfalls in crosshole seismic interpretation as a result of 3-D effects: *Geophysics*, **60**, no. 03, 821–833.
- Muir, F., Dellinger, J., Etgen, J., and Nichols, D., 1992, Modeling elastic fields across irregular boundaries (short note): *Geophysics*, **57**, no. 09, 1189–1193.
- Mukerji, T., and Mavko, G., 1994, Pore fluid effects on seismic velocity in anisotropic rocks: *Geophysics*, **59**, no. 02, 233–244.
- Mukerji, T., Mavko, G., Mujica, D., and Lucet, N., 1995, Scale-dependent seismic velocity in heterogeneous media: *Geophysics*, **60**, no. 04, 1222–1233.
- Murphy, W., Reischer, A., and Hsu, K., 1993, Modulus decomposition of compressional and shear velocities in sand bodies: *Geophysics*, **58**, no. 02, 227–239.
- Musgrove, F. W., 1994, Time-variant statics corrections during interpretation: *Geophysics*, **59**, no. 03, 474–483.
- Najmi, A. H., 1996, Closed form solutions for the geometrical spreading in inhomogeneous media: *Geophysics*, **61**, no. 04, 1189–1197.

- Nautiyal, A., Gray, S. H., Whitmore, N. D., and Garing, J. D., 1993, Stability versus accuracy for an explicit wavefield extrapolation operator: *Geophysics*, **58**, no. 02, 277–283.
- Neep, J. P., Sams, M. S., Worthington, M. H., and O’Hara-Dhand, K. A., 1996, Measurement of seismic attenuation from high-resolution crosshole data: *Geophysics*, **61**, no. 04, 1175–1188.
- Neff, D. B., 1993, Amplitude map analysis using forward modeling in sandstone and carbonate reservoirs: *Geophysics*, **58**, no. 10, 1428–1441.
- Nekut, A. G., 1994a, Anisotropy induction logging: *Geophysics*, **59**, no. 03, 345–350.
- Nekut, A. G., 1994b, Electromagnetic ray-trace tomography: *Geophysics*, **59**, no. 03, 371–377.
- Nekut, A. G., 1995, Crosswell electromagnetic tomography in steel-cased wells: *Geophysics*, **60**, no. 03, 912–920.
- Nelson, P. H., and Johnston, D., 1994, Geophysical and geochemical logs from a copper oxide deposit, Santa Cruz project, Casa Grande, Arizona: *Geophysics*, **59**, no. 12, 1827–1838.
- Nelson, J. B., 1994, Leveling total-field aeromagnetic data with measured horizontal gradients (short note): *Geophysics*, **59**, no. 07, 1166–1170.
- Newman, G. A., 1994, Study of downhole electromagnetic sources for mapping enhanced oil recovery processes: *Geophysics*, **59**, no. 04, 534–545.
- Newman, G., 1995, Crosswell electromagnetic inversion using integral and differential equations: *Geophysics*, **60**, no. 03, 899–911.
- Nichols, D. E., 1996, Maximum energy traveltimes calculated in the seismic frequency band: *Geophysics*, **61**, no. 01, 253–263.
- Nolen-Hoeksema, R. C., Wang, Z., Harris, J. M., and Langan, R. T., 1995, High-resolution crosswell imaging of a West Texas carbonate reservoir: Part 5: Core analysis: *Geophysics*, **60**, no. 03, 712–726.
- Nojonen, I. T., 1995, Velocity computation from checkshot surveys in deviated wells (short note): *Geophysics*, **60**, no. 06, 1930–1932.
- Norris, A. N., and Sinha, B. K., 1993, Weak elastic anisotropy and the tube wave: *Geophysics*, **58**, no. 08, 1091–1098.
- O’Brien, J., 1992, VSP measurement of shear-wave velocities in consolidated and poorly consolidated formations: *Geophysics*, **57**, no. 12, 1583–1592.
- O’Connell, J. K., Kohli, M., and Amos, S., 1993, Bullwinkle: A unique 3-D experiment: *Geophysics*, **58**, no. 01, 167–176.

- Ogilvie, J. S., and Purnell, G. W., 1996, Effects of salt-related mode conversions on subsalt prospecting: *Geophysics*, **61**, no. 02, 331–348.
- Okaya, D. A., Karageorgi, E., McEvelly, T. V., and Malin, P. E., 1992, Removing vibrator-induced correlation artifacts by filtering in frequency-uncorrelated time space: *Geophysics*, **57**, no. 07, 916–926.
- Okaya, D. A., 1995, Spectral properties of the Earth's contribution to seismic resolution: *Geophysics*, **60**, no. 01, 241–251.
- Okoye, P. N., Zhao, P., and Uren, N. F., 1996, Inversion technique for recovering the elastic constants of transversely isotropic materials: *Geophysics*, **61**, no. 05, 1247–1257.
- Oldenburg, D. W., and Li, Y., 1994, Inversion of induced polarization data: *Geophysics*, **59**, no. 09, 1327–1341.
- Olsen, K. B., and Hohmann, G. W., 1992, Adaptive noise cancellation for time-domain EM data (short note): *Geophysics*, **57**, no. 03, 466–469.
- Ostrowski, J. A., Pilkington, M., and Teskey, D. J., 1993, Werner deconvolution for variable altitude aeromagnetic data: *Geophysics*, **58**, no. 10, 1481–1490.
- Ou, Q., and Deng, D., 1995, Advances of geophysical prospecting for petroleum in marine carbonate areas of the upper Yangtze region, southern China: *Geophysics*, **60**, no. 05, 1295–1305.
- Owen, T. E., and Parra, J. O., 1993, Comparison of high-resolution wax-embedded and pneumatically coupled borehole seismic detectors: *Geophysics*, **58**, no. 01, 141–153.
- Owusu, J. C., and Spencer, T. W., 1995, VSP normal moveout stretch (short note): *Geophysics*, **60**, no. 05, 1579–1582.
- Ozdenvar, T., McMechan, G. A., and Chaney, P., 1996, Simulation of complete seismic surveys for evaluation of experiment design and processing: *Geophysics*, **61**, no. 02, 496–508.
- Pai, D. M., Ahmad, J., and Kennedy, W. D., 1993, Two-dimensional induction log modeling using a coupled-mode, multiple-reflection series method: *Geophysics*, **58**, no. 04, 466–474.
- Painter, S., Beresford, G., and Paterson, L., 1995, On the distribution of seismic reflection coefficients and seismic amplitudes: *Geophysics*, **60**, no. 04, 1187–1194.
- Palacky, G. J., and Stephens, L. E., 1992, Detection of subbottom ice-bonded permafrost on the Canadian Beaufort shelf by ground electromagnetic measurements: *Geophysics*, **57**, no. 11, 1419–1427.
- Pan, G.-S., Young, C. Y., and Castagna, J. P., 1994, Integrated target-oriented prestack elastic waveform inversion: Sensitivity, calibration, and application: *Geophysics*, **59**, no. 09, 1392–1404.

- Pan, G., 1993, Measure for the resolving power and bias effect in the nonlinear inverse analysis of geophysical potential fields: *Geophysics*, **58**, no. 05, 626–636.
- Park, C., and Black, R. A., 1995, Simple time-variant, band-pass filtering by operator scaling: *Geophysics*, **60**, no. 05, 1527–1535.
- Park, C. B., Miller, R. D., Steeples, D. W., and Black, R. A., 1996, Swept impact seismic technique (sist): *Geophysics*, **61**, no. 06, 1789–1803.
- Parker, J. C. J., Pelton, J. R., and Dougherty, M. E., 1993, A versatile shotgun source for engineering and groundwater seismic surveys: *Geophysics*, **58**, no. 10, 1511–1516.
- Parker, R. L., 1995, Improved Fourier terrain correction, part I: *Geophysics*, **60**, no. 04, 1007–1017.
- Parker, R. L., 1996, Improved Fourier terrain correction, part II: *Geophysics*, **61**, no. 02, 365–372.
- Paul, R. J., 1993, Seismic detection of overpressuring and fracturing: An example from the Qaidam basin, People's Republic of China: *Geophysics*, **58**, no. 10, 1532–1543.
- Pawlowski, R. S., 1994, Green's equivalent-layer concept in gravity band-pass filter design: *Geophysics*, **59**, no. 01, 69–76.
- Pawlowski, R. S., 1995, Preferential continuation for potential-field anomaly enhancement: *Geophysics*, **60**, no. 02, 390–398.
- Payne, M. A., 1994, Looking ahead with vertical seismic profiles: *Geophysics*, **59**, no. 08, 1182–1191.
- Peacock, S., McCann, C., Sothcott, J., and Astin, T. R., 1994, Experimental measurements of seismic attenuation in microfractured sedimentary rock: *Geophysics*, **59**, no. 09, 1342–1351.
- Pellerin, L., and Hohmann, G. W., 1995, A parametric study of the vertical electric source: *Geophysics*, **60**, no. 01, 43–52.
- Pellerin, L., Johnston, J. M., and Hohmann, G. W., 1996, A numerical evaluation of electromagnetic methods in geothermal exploration: *Geophysics*, **61**, no. 01, 121–130.
- Peng, C., and Toksoz, M. N., 1995, An optimal absorbing boundary condition for elastic wave modeling (short note): *Geophysics*, **60**, no. 01, 296–301.
- Peng, C., Lee, J. M., and Toksoz, M. N., 1996, Pressure in a fluid-filled borehole caused by a seismic source in stratified media: *Geophysics*, **61**, no. 01, 43–55.
- Perelberg, A. I., and Hornbostel, S. C., 1994, Applications of seismic polarization analysis: *Geophysics*, **59**, no. 01, 119–130.
- Phadke, S., Kapotas, S., Dai, N., and Kanasewich, E. R., 1994, Migration of P-wave reflection data in transversely isotropic media: *Geophysics*, **59**, no. 04, 591–596.

- Pickard, J. E., 1992, Velocity modeling of a long-period static anomaly, West Cameron block 225, a Gulf of Mexico case history: *Geophysics*, **57**, no. 03, 420–430.
- Pietsch, K., and Slusarczyk, R., 1992, The application of high-resolution seismics in Polish coal mining: *Geophysics*, **57**, no. 01, 171–180.
- Pin, Y., and Qiaodeng, H., 1994, Modeling seismic waves in Tim: *Geophysics*, **59**, no. 11, 1745–1749.
- Poddar, M., and Anderson, W. L., 1992, Transient electromagnetic modeling of shallow A-type sections with 3-D inhomogeneities: *Geophysics*, **57**, no. 06, 774–780.
- Popovici, A. M., 1996, Prestack migration by split-step DSR: *Geophysics*, **61**, no. 05, 1412–1416.
- Porsani, M. J., 1996, Fast algorithms to design discrete Wiener filters in lag and length coordinates: *Geophysics*, **61**, no. 03, 882–890.
- Poulton, M. M., Sternberg, B. K., and Glass, C. E., 1992, Location of subsurface targets in geophysical data using neural networks: *Geophysics*, **57**, no. 12, 1534–1544.
- Prasad, M., and Meissner, R., 1992, Attenuation mechanisms in sands: Laboratory versus theoretical (biot) data: *Geophysics*, **57**, no. 05, 710–719.
- Pratt, R. G., and Sams, M. S., 1996, Reconciliation of crosshole seismic velocities with well information in a layered sedimentary environment: *Geophysics*, **61**, no. 02, 549–560.
- Pratt, R. G., McGaughey, W. G., and Chapman, C. H., 1993, Anisotropic velocity tomography: A case study in a near-surface rock mass: *Geophysics*, **58**, no. 12, 1748–1763.
- Pullammanappallil, S. K., and Louie, J. N., 1993, Inversion of seismic reflection traveltimes using a nonlinear optimization scheme: *Geophysics*, **58**, no. 11, 1607–1620.
- Purnell, G. W., 1992, Imaging beneath a high-velocity layer using converted waves: *Geophysics*, **57**, no. 11, 1444–1452.
- Qian, W., and Boerner, D. E., 1994, Electromagnetic response of a discretely grounded circuit; an integral equation solution: *Geophysics*, **59**, no. 11, 1680–1694.
- Qian, W., and Pedersen, L. B., 1993, Spatial averaging of the vertical magnetic field in central-loop configuration (short note): *Geophysics*, **58**, no. 10, 1507–1510.
- Qin, F., and Schuster, G. T., 1993, First-arrival travelttime calculation for anisotropic media: *Geophysics*, **58**, no. 09, 1349–1358.
- Qin, F., Luo, Y., Olsen, K. B., Cai, W., and Schuster, G. T., 1992, Finite-difference solution of the eikonal equation along expanding wavefronts: *Geophysics*, **57**, no. 03, 478–487.

- Rajan, N. S., 1993, Discussion on 'The use of the Hartley transform in geophysical applications', by R. Saatcilar, S. Ergintav, and N. Canitez (geo-55-11-1488-1495) with reply by authors: *Geophysics*, **58**, no. 07, 1058–1060.
- Rajasekaran, S., and McMechan, G. A., 1995, Prestack processing of land data with complex topography: *Geophysics*, **60**, no. 06, 1875–1886.
- Rajasekaran, S., and McMechan, G. A., 1996, Tomographic estimation of the spatial distribution of statics: *Geophysics*, **61**, no. 04, 1198–1208.
- Ranganayaki, R. P., Akturk, S. E., and Fryer, S. M., 1992, Formation resistivity variation due to steam flooding: A log study: *Geophysics*, **57**, no. 03, 488–494.
- Rao, D. B., Prakash, M. J., and Babu, N. R., 1993, Gravity interpretation using Fourier transforms and simple geometrical models with exponential density contrast: *Geophysics*, **58**, no. 08, 1074–1083.
- Ravalec, M. L., and Gueguen, Y., 1996, High- and low-frequency elastic moduli for a saturated porous/cracked rock - Differential self-consistent and poroelastic theories: *Geophysics*, **61**, no. 04, 1080–1094.
- Ravat, D., 1996, Magnetic properties of unrusted steel drums from laboratory and field-magnetic measurements: *Geophysics*, **61**, no. 05, 1325–1335.
- Rechtien, R. D., Hambacker, K. L., and Ballard, R. F. J., 1993, A high-frequency sparker source for the borehole environment: *Geophysics*, **58**, no. 05, 660–669.
- Rechtien, R. D., Greenfield, R. J., and Ballard, R. F. J., 1995, Tunnel signature prediction for a cross-borehole seismic survey: *Geophysics*, **60**, no. 01, 76–86.
- Rector, J. W. I., and Hardage, B. A., 1992, Radiation pattern and seismic waves generated by a working roller-cone drill bit: *Geophysics*, **57**, no. 10, 1319–1333.
- Rector, J. W. I., and Washbourne, J., 1994, Characterization of resolution and uniqueness in crosswell direct arrival travelttime tomography using the Fourier projection slice theorem: *Geophysics*, **59**, no. 11, 1642–1649.
- Rector, J. W. I., Lazaratos, S. K., Harris, J. M., and van Schaack, M., 1994, Multidomain analysis and wavefield separation of cross-well seismic data: *Geophysics*, **59**, no. 01, 27–35.
- Rector, J. W. I., Lazaratos, S. K., Harris, J. M., and van Schaack, M., 1995, High-resolution crosswell imaging of a West Texas carbonate reservoir: Part 3: Wavefield separation of reflections: *Geophysics*, **60**, no. 03, 692–701.
- Rector, J. W. I., 1995, Crosswell methods: Where are we, where are we going? (special issue): *Geophysics*, **60**, no. 02, 627–630.
- Reed, M. J., Nguyen, H., and Chambers, R., 1993, Computing the Fourier transform in geophysics with the transform decomposition DFT (short note): *Geophysics*, **58**, no. 11, 1707–1709.

- Regueiro, J., and Pena, A., 1996, AVO in north of Paria, Venezuela: Gas methane versus condensate reservoirs: *Geophysics*, **61**, no. 04, 937–946.
- Reilly, J. M., 1994, Wireline shear and AVO modeling: Application to AVO investigations of the Tertiary, U.K. central North Sea: *Geophysics*, **59**, no. 08, 1249–1260.
- Reiter, D. T., and Rodi, W., 1996, Nonlinear waveform tomography applied to cross-hole seismic data: *Geophysics*, **61**, no. 03, 902–913.
- Reiter, E. C., Purdy, G. M., and Toksoz, M. N., 1993, 2-D velocity inversion/imaging of large offset seismic data via the tau-p domain: *Geophysics*, **58**, no. 07, 1002–1016.
- Rekdal, T., and Doornbos, D. J., 1993, A modified form of diffraction tomography to image boundary structures: *Geophysics*, **58**, no. 08, 1136–1147.
- Remy, J. M., Bellanger, M., and Homand-Etienne, A., 1994, Laboratory velocities and attenuation of P-waves in limestones during freeze-thaw cycles: *Geophysics*, **59**, no. 02, 245–251.
- Renlie, L., and Raaen, A. M., 1993, Acoustic wave propagation in a fluid-filled borehole surrounded by a formation with stress-relief-induced anisotropy: *Geophysics*, **58**, no. 09, 1257–1269.
- Renlie, L., 1994, Multiple logging in a formation with stress-relief induced anisotropy: *Geophysics*, **59**, no. 12, 806–1812.
- Riahi, M. A., and Juhlin, C., 1994, 3-D interpretation of reflected arrival times by finite-difference techniques (short note): *Geophysics*, **59**, no. 05, 844–849.
- Richardson, R. P., 1992, Linear velocity function: Reflection times for specific ranges (short note): *Geophysics*, **57**, no. 10, 1352–1353.
- Rietveld, W. E. A., and Berkhout, A. J., 1994, Prestack depth migration by means of controlled illumination: *Geophysics*, **59**, no. 05, 801–809.
- Rietveld, W. E. A., Berkhout, A. J., and Wapenaar, C. P. A., 1992, Optimum seismic illumination of hydrocarbon reservoirs: *Geophysics*, **57**, no. 10, 1331–1345.
- Rio, P., Mukerji, T., Mavko, G., and Marion, D., 1996, Velocity dispersion and upscaling in a laboratory-simulated VSP: *Geophysics*, **61**, no. 02, 584–593.
- Ristow, D., and Ruhl, T., 1994, Fourier finite-difference migration: *Geophysics*, **59**, no. 12, 1882–1893.
- Robertsson, J. O. A., Blanch, J. O., and Symes, W. W., 1994, Viscoelastic finite-difference modeling: *Geophysics*, **59**, no. 09, 1444–1456.
- Robertsson, J. O. A., 1996, A numerical free-surface condition for elastic/viscoelastic finite-difference modeling in the presence of topography: *Geophysics*, **61**, no. 06, 1921–1934.

- Roest, W. R., and Pilkington, M., 1993, Identifying remanent magnetization effects in magnetic data: *Geophysics*, **58**, no. 05, 653–659.
- Roest, W. R., Verhoef, J., and Pilkington, M., 1992, Magnetic interpretation using the 3-D analytic signal: *Geophysics*, **57**, no. 01, 116–125.
- Roksandic, M., 1994, Discussion on 'An integrated surface and borehole seismic case study, fort St. John graben area, Alberta, Canada', by R. Hinds, R. Kuzminski, N. Anderson and B. Richards (geo-58-11-1662-1675): *Geophysics*, **59**, no. 07, 1171–1172.
- Roksandic, M. M., 1995, Discussion on 'A 3-D seismic case history evaluating fluviually deposited thin-bed reservoirs in a gas-producing property', by B. A. Hardage, R. A. levy, V. Pendleton, J. Simmons, and R. Edsen with reply (geo-59-11-1650-1665): *Geophysics*, **60**, no. 05, 1585–1592.
- Rommel, B. E., 1994, Approximate polarization of plane waves in a medium having weak transverse isotropy: *Geophysics*, **59**, no. 10, 1605–1612.
- Rosenbaum, J. H., 1993, Reasonable choices for material constants in seismic modeling: *Geophysics*, **58**, no. 07, 978–986.
- Rosenbaus, J. H., 1994, Synthetic seismograms for a long spread of seismometer stations: *Geophysics*, **59**, no. 03, 450–463.
- Ross, C. P., and Beale, P. L., 1994, Seismic offset balancing: *Geophysics*, **59**, no. 01, 93–101.
- Ross, C. P., and Kinman, D. L., 1995, Nonbright-spot AVO: Two examples: *Geophysics*, **60**, no. 05, 1398–1408.
- Ross, C. P., 1992, Incomplete AVO near salt structures: *Geophysics*, **57**, no. 04, 543–553.
- Ross, W. S., 1994, Velocity-depth ambiguity in seismic travelttime data: *Geophysics*, **59**, no. 05, 830–843.
- Rousseau, V., Benoit, C., Bayer, R., Cuer, M., and Poussigue, G., 1996, Elastic wave-propagation simulation in heterogeneous media by the spectral moments method: *Geophysics*, **61**, no. 05, 1269–1281.
- Rowbotham, P. S., and Goulty, N. R., 1994, Wavefield separation by 3-D filtering in crosshole seismic reflection processing: *Geophysics*, **59**, no. 07, 1065–1071.
- Roy, K. K., and Dutta, D. J., 1994, Borehole DC resistivity response for a transitional invaded zone: *Geophysics*, **59**, no. 12, 796–1805.
- Roy, J., 1993, Discussion on 'Effect of temporal and spatial variations of the primary signal on VLF total-field surveys', by M. A. Vallee, M. Chouteau, and G. J. Palacky (geo-57-1-97-105) with replies by authors: *Geophysics*, **58**, no. 05, 756–757.

- Ruhl, T., 1996, Finite-difference migration derived from the Kirchhoff-Helmholtz integral: *Geophysics*, **61**, no. 05, 1394–1399.
- Ruotoistenmaki, T., 1992, The gravity anomaly of two-dimensional sources with continuous density distribution and bounded by continuous surfaces: *Geophysics*, **57**, no. 04, 623–628.
- Rutherford, S. R., 1993, Noise-discriminating, statistical-amplitude compensation for AVO analysis: *Geophysics*, **58**, no. 12, 1831–1839.
- Saatcilar, R., and Canitez, N., 1994, Lattice filter in ground-roll suppression: *Geophysics*, **59**, no. 04, 623–631.
- Sacchi, M. D., and Ulrych, T. J., 1995, High-resolution velocity gathers and offset space reconstruction: *Geophysics*, **60**, no. 04, 1169–1177.
- Sacchi, M. D., and Ulrych, T. J., 1996, Estimation of the discrete Fourier transform, a linear inversion approach: *Geophysics*, **61**, no. 04, 1128–1136.
- Sacchi, M. D., Velis, D. R., and Cominguez, A. H., 1994, Minimum entropy deconvolution with frequency-domain constraints: *Geophysics*, **59**, no. 06, 938–945.
- Saha, J. G., Mehta, C. H., and Benjamin, S., 1993, Discussion on 'Decomposition into minimum and maximum phase components', by E. Eisner and G. Hampson (geo-55-7-897-901) with reply by authors: *Geophysics*, **58**, no. 08, 1207–1213.
- Sain, K., and Kaila, K. L., 1994, Inversion of wide-angle seismic reflection times with damped least squares: *Geophysics*, **59**, no. 11, 1735–1744.
- Samec, P., and Blangy, J. P., 1992, Viscoelastic attenuation, anisotropy, and AVO: *Geophysics*, **57**, no. 03, 441–450.
- Sams, M. S., 1995, Attenuation and anisotropy: The effect of extra fine layering: *Geophysics*, **60**, no. 06, 1646–1655.
- Sasaki, Y., Yoneda, Y., and Matsuo, K., 1992, Resistivity imaging of controlled-source audiofrequency magnetotelluric data (short note): *Geophysics*, **57**, no. 07, 952–955.
- Sasaki, Y., 1994, 3-D resistivity inversion using the finite-element method: *Geophysics*, **59**, no. 12, 1839–1848.
- Saunders, D. F., Burson, K. R., Branch, J. F., and Thompson, C. K., 1993, Relation of thorium-normalized surface and aerial radiometric data to subsurface petroleum accumulations: *Geophysics*, **58**, no. 10, 1417–1427.
- Saunders, D. F., Branch, J. F., and Thompson, C. K., 1994, Tests of Australian aerial radiometric data for use in petroleum reconnaissance: *Geophysics*, **59**, no. 03, 411–419.
- Sayers, C. M., 1995, Simplified anisotropy parameters for transversely isotropic sedimentary rocks (short note): *Geophysics*, **60**, no. 06, 1933–1935.

- Scales, J. A., 1993, On the use of localization theory to characterize elastic wave propagation in randomly stratified 1-D media (short note): *Geophysics*, **58**, no. 01, 177–179.
- Schenkel, C. J., and Morrison, H. F., 1994, Electrical resistivity measurement through metal casing: *Geophysics*, **59**, no. 07, 1072–1082.
- Schleicher, J., Hubral, P., and Tygel, M., 1993a, Geometrical-spreading correction by a dual diffraction stack (short note): *Geophysics*, **58**, no. 12, 1870–1873.
- Schleicher, J., Tygel, M., and Hubral, P., 1993b, 3-D true-amplitude finite-offset migration: *Geophysics*, **58**, no. 08, 1112–1126.
- Schneider, W. A. J., Ranzinger, K. A., Balch, A. H., and Kruse, C., 1992, A dynamic programming approach to first arrival travelttime computation in media with arbitrarily distributed velocities: *Geophysics*, **57**, no. 01, 39–50.
- Schneider, W. A. J., Phillip, L. D., and Paal, E. F., 1995, Wave-equation velocity replacement of the low-velocity layer for overthrust-belt data: *Geophysics*, **60**, no. 02, 573–579.
- Schneider, W. A. J., 1995, Robust and efficient upwind finite-difference travelttime calculations in three dimensions: *Geophysics*, **60**, no. 04, 1108–1117.
- Schoenberg, M., and Sayers, C. M., 1995, Seismic anisotropy of fractured rock: *Geophysics*, **60**, no. 01, 204–211.
- Schoenberger, M., 1996, Optimum weighted stack for multiple suppression: *Geophysics*, **61**, no. 03, 891–901.
- Schuster, G. T., and Quintus-Bosz, A., 1993, Wavepath eikonal travelttime inversion: Theory: *Geophysics*, **58**, no. 09, 1314–1323.
- SEG, 1996, SEG/Denver 1996 Technical Program Preview: *Geophysics*, **61**, no. 05, 1525–1544.
- Sen, P. N., and Goode, P. A., 1992, Influence of temperature on electrical conductivity of shaly sands: *Geophysics*, **57**, no. 01, 89–96.
- Sen, M. K., Bhattacharya, B. B., and Stoffa, P. L., 1993, Nonlinear inversion of resistivity sounding data: *Geophysics*, **58**, no. 04, 496–507.
- Sena, A. G., and Toksoz, M. N., 1993, Kirchoff migration and velocity analysis for converted and nonconverted waves in anisotropic media: *Geophysics*, **58**, no. 02, 265–276.
- Sena, A. G., 1991, Seismic travelttime equations for azimuthally anisotropic and isotropic media: Estimation of interval elastic properties: *Geophysics*, **56**, no. 12, 2090–2101.

- Sengupta, M. K., and Rendleman, C. A., 1991, Case study: The importance of gas leakage in interpreting amplitude-versus-offset (avo) analysis: *Geophysics*, **56**, no. 11, 1886–1895.
- Seriff, A. J., and Sriram, K. P., 1991, P-SV reflection moveouts for transversely isotropic media with a vertical symmetry axis (short note): *Geophysics*, **56**, no. 08, 1271–1274.
- Sezginer, A., 1991, Borehole effect on gravimetry (short note): *Geophysics*, **56**, no. 12, 2107–2109.
- Shapiro, S. A., and Hubral, P., 1996, Elastic waves in finely layered sediments: The equivalent medium and generalized O’Doherty-Anstey formulas: *Geophysics*, **61**, no. 05, 1282–1300.
- Shapiro, S. A., and Zien, H., 1993, The O’Doherty-Anstey formula and localization of seismic waves (short note): *Geophysics*, **58**, no. 05, 736–740.
- Shapiro, S. A., Zien, H., and Hubral, P., 1994, Generalized O’Doherty-Anstey formula for waves in finely layered media: *Geophysics*, **59**, no. 11, 1750–1762.
- Sheng, P., 1991, Consistent modeling of the electrical and elastic properties of sedimentary rocks: *Geophysics*, **56**, no. 08, 1236–1243.
- Shima, H., 1992, 2-D and 3-D resistivity image reconstruction using crosshole data: *Geophysics*, **57**, no. 10, 1270–1281.
- Shin, C., 1995, Sponge boundary condition for frequency-domain modeling: *Geophysics*, **60**, no. 06, 1870–1874.
- Shon, H., and Yamamoto, T., 1992, Simple data processing procedures for seismic section noise reduction: *Geophysics*, **57**, no. 08, 1064–1067.
- Shtivelman, V., 1996, Kinematic inversion of first arrivals of refracted waves - A combined approach: *Geophysics*, **61**, no. 02, 509–519.
- Shuck, E. L., Davis, T. L., and Benson, R. D., 1996, Multicomponent 3-D characterization of a coalbed methane reservoir: *Geophysics*, **61**, no. 02, 315–330.
- Shushakov, O. A., 1996, Groundwater NMR in conductive water: *Geophysics*, **61**, no. 04, 998–1006.
- Silva, J. B. C., 1996, 2-D magnetic interpretation using the vertical integral: *Geophysics*, **61**, no. 02, 387–393.
- Simmons, J. L. J., and Backus, M. M., 1992, Linearized tomographic inversion of first-arrival times: *Geophysics*, **57**, no. 11, 1482–1492.
- Simmons, J. L. J., and Backus, M. M., 1994, AVO modeling and the locally converted shear wave: *Geophysics*, **59**, no. 08, 1237–1248.

- Simmons, J. L. J., and Backus, M. M., 1996a, A matched-filter approach to impedance estimation: *Geophysics*, **61**, no. 02, 484–495.
- Simmons, J. L. J., and Backus, M. M., 1996b, Waveform-based AVO inversion and AVO prediction error: *Geophysics*, **61**, no. 06, 1575–1588.
- Simms, J. E., and Morgan, F. D., 1992, Comparison of four least-squares inversion schemes for studying equivalence in one-dimensional resistivity interpretation: *Geophysics*, **57**, no. 10, 1282–1293.
- Sincer, I., and Kayiran, T., 1993, Relationship between Deregowski-Rocca and hale operators (short note): *Geophysics*, **58**, no. 09, 1373–1386.
- Singh, R. P., and Singh, Y. P., 1991, RAYPT: A new inversion technique for geotomographic data: *Geophysics*, **56**, no. 08, 1215–1227.
- Singh, S. C., Hobbs, R. W., and Snyder, D. B., 1996, Broadband receiver response from dual-streamer data and applications in deep reflection seismology: *Geophysics*, **61**, no. 01, 232–243.
- Sinha, B. K., and Kostek, S., 1996, Stress-induced azimuthal anisotropy in borehole flexural waves: *Geophysics*, **61**, no. 06, 1899–1907.
- Sinha, B. K., Norris, A. N., and Chang, S. K., 1994, Borehole flexural modes in anisotropic formations: *Geophysics*, **59**, no. 07, 1037–1052.
- Skilbrei, J. R., 1993, The straight-slope method for basement depth determination revisited (short note): *Geophysics*, **58**, no. 04, 593–595.
- Slack, R. D., Ebrom, D. A., McDonald, J. A., and Tatham, R. H., 1993, Thin layers and shear-wave splitting: *Geophysics*, **58**, no. 10, 1468–1480.
- Small, C., and Sandwell, D. T., 1992, A comparison of satellite and shipboard gravity measurements in The Gulf of Mexico: *Geophysics*, **57**, no. 07, 885–893.
- Smidt, J. M., 1996, A limitation of well velocity surveys in highly deviated wells drilled parallel to bedding: *Geophysics*, **61**, no. 03, 627–630.
- Smith, R. S., and Keating, P. B., 1996, The usefulness of multicomponent, time-domain airborne electromagnetic measurements: *Geophysics*, **61**, no. 01, 74–81.
- Smith, R. S., and Klein, J., 1996, A special circumstance of airborne induced-polarization measurements: *Geophysics*, **61**, no. 01, 66–73.
- Smith, G. C., and Sutherland, R. A., 1996, The fluid factor as an AVO indicator: *Geophysics*, **61**, no. 05, 1425–1428.
- Smith, R. S., Edwards, R. N., and Buselli, G., 1994, Automatic technique for presentation of coincident-loop, impulse-response, transient, electromagnetic data: *Geophysics*, **59**, no. 10, 1542–1550.

- Smith, R. S., Annan, A. P., Lemieux, J., and Pedersen, R. N., 1996, Application of a modified GEOTEM system to reconnaissance exploration for Kimberlites in the Point Lake area, NWT, Canada: *Geophysics*, **61**, no. 01, 82–92.
- Smith, J. T., 1996a, Conservative modeling of 3-D electromagnetic fields, part I: Properties and error analysis: *Geophysics*, **61**, no. 05, 1308–1318.
- Smith, J. T., 1996b, Conservative modeling of 3-D electromagnetic fields, part II: Bi-conjugate gradient solution and an accelerator: *Geophysics*, **61**, no. 05, 1319–1324.
- Snyder, A. G., and Wroldstad, K. H., 1992, Direct detection using AVO, Central Graben, North Sea: *Geophysics*, **57**, no. 02, 313–325.
- Sochacki, J. S., George, J. H., Ewing, R. E., and Smithson, S. B., 1991, Interface conditions for acoustic and elastic wave propagation: *Geophysics*, **56**, no. 02, 168–181.
- Song, Z. M., and Williamson, P. R., 1995, Frequency-domain acoustic-wave modeling and inversion of crosshole data: Part I: 2.5-D modeling method: *Geophysics*, **60**, no. 03, 784–795.
- Song, Z. M., Williamson, P. R., and Pratt, R. G., 1995, Frequency-domain acoustic-wave modeling and inversion of crosshole data: Part II: Inversion method, synthetic experiments and real-data results: *Geophysics*, **60**, no. 03, 796–809.
- Sorenson, K. I., and Christensen, N. B., 1994, Fields from a finite electrical dipole—a new computational approach: *Geophysics*, **59**, no. 06, 864–880.
- Sorin, V., 1994, Nonuniqueness of velocity determination for one type of layered model (short note): *Geophysics*, **59**, no. 01, 161–164.
- Sorin, V., 1995, Accuracy study of velocity estimation in 3-D layered models: *Geophysics*, **60**, no. 05, 1567–1574.
- Soubaras, R., 1996, Explicit 3-D migration using equiripple polynomial expansion and Laplacian synthesis: *Geophysics*, **61**, no. 05, 1386–1393.
- Spagnolini, U., 1993, 2-D phase unwrapping and phase aliasing: *Geophysics*, **58**, no. 09, 1324–1334.
- Spagnolini, U., 1994, Time-domain estimation of MT impedance tensor: *Geophysics*, **59**, no. 05, 712–721.
- Sparlin, M. A., and Lewis, R. D., 1994, Interpretation of the magnetic anomaly over the Omaha oil field, Gallatin county, Illinois: *Geophysics*, **59**, no. 07, 1092–1099.
- Spector, A., and Lawler, T. L., 1995, Application of aeromagnetic data to mineral potential evaluation in Minnesota: *Geophysics*, **60**, no. 06, 1704–1714.
- Spencer, T. W., and Chi, H. C., 1991, Thin-layer fracture density: *Geophysics*, **56**, no. 06, 833–843.

- Spencer, C., Thurlow, G., Wright, J., White, D., Carroll, P., Milkereit, B., and Reed, L., 1993, A Vibroseis reflection seismic survey at the Buchans Mine in central Newfoundland: *Geophysics*, **58**, no. 01, 154–166.
- Spencer, J. W. J., Cates, M. E., and Thompson, D. D., 1994, Frame moduli of unconsolidated sands and sandstones: *Geophysics*, **59**, no. 09, 1352–1361.
- Spies, B. R., and Ellis, R. G., 1995, Cross-borehole resistivity tomography of a pilot-scale, in-situ vitrification test: *Geophysics*, **60**, no. 03, 886–898.
- Spies, B. R., and Habashy, T. M., 1995, Sensitivity analysis of crosswell electromagnetics: *Geophysics*, **60**, no. 03, 834–845.
- Spies, B. R., and Wait, J. R., 1996, Discussion on 'Apparent resistivity curves in controlled-source electromagnetic sounding directly reflecting true resistivities in a layered earth', by Das, U. C. with reply by author (geo-60-1-53-60): *Geophysics*, **61**, no. 03, 917–918.
- Spies, B. R., 1991, The effectiveness of journals in exploration geophysics: *Geophysics*, **56**, no. 06, 844–858.
- Spitz, S., 1991, Seismic trace interpolation in the F-X domain: *Geophysics*, **56**, no. 06, 785–794.
- Sprunt, E. A., Mercer, T. B., and Djabbarah, N. F., 1994, Streaming potential from multiphase flow: *Geophysics*, **59**, no. 05, 707–711.
- Squires, L. J., and Cambois, G., 1992, A linear filter approach to designing off-diagonal damping matrices for least-squares inverse problems (short note): *Geophysics*, **57**, no. 07, 948–951.
- Squires, L. J., Blakeslee, S. M., and Stoffa, P. L., 1992, The effects of statics on tomographic velocity reconstructions: *Geophysics*, **57**, no. 02, 353–362.
- Squires, L. J., Stoffa, P. L., and Cambois, G., 1994, Borehole transmission tomography for velocity plus statics: *Geophysics*, **59**, no. 07, 1028–1036.
- Sriram, K. P., and Gilbreth, M., 1995a, Intellectual property: Conditions for issuing of patents and loss of right to a patent: *Geophysics*, **60**, no. 02, 614.
- Sriram, K. P., and Gilbreth, M., 1995b, Intellectual property: Copyrights: Patent and copyright protection of computer programs: *Geophysics*, **60**, no. 04, 1270–1271.
- Sriram, K. P., and Gilbreth, M., 1995c, Intellectual property: Patent infringement: *Geophysics*, **60**, no. 03, 925–926.
- Sriram, K. P., and Gilbreth, M., 1995d, Intellectual property: Trade secrets: *Geophysics*, **60**, no. 05, 1593–1594.
- Sriram, K. P., and Gilbreth, M., 1996, Intellectual Property: Impact of NAFTA/GATT on U.S. Patent Law: *Geophysics*, **61**, no. 01, 299–301.

- Stafleu, J., Schlager, W., Everts, A. J. W., Kenter, J. A. M., Blommers, G., and van Vorden, A., 1996, Outcrop topography as a proxy of acoustic impedance in synthetic seismograms: *Geophysics*, **61**, no. 06, 1779–1788.
- Std[], S. C. F. T., 1994, Digital field tape standards - SEG-D, revision 1 (special report): *Geophysics*, **59**, no. 04, 668–684.
- Steenland, N. C., 1991, Discussion on 'Variable-depth magnetization mapping: Application to the Athabasca Basin, northern Alberta and Saskatchewan, Canada', by M. Pilkington (geo-54-9-1164-1173): *Geophysics*, **56**, no. 02, 308.
- Steenland, N., 1994, Discussion on 'The straight-slope method for basement depth determination revisited', by J. Skilbrei (geo-58-4-593-595): *Geophysics*, **59**, no. 05, 851–852.
- Steenland, N., 1996a, Discussion on 'Exploration of a Lignite-Bearing Basin in Northern Ireland using Ground and Magnetic VLF-EM Methods', by McCaffrey, R. J., McElroy, J., Leslie, G. with reply from author (geo-60-2-408-412): *Geophysics*, pages 915–916.
- Steenland, N. C., 1996b, Discussion on 'A Case Study of Integrated Hydrocarbon Exploration Through Basalt', by Withers, R.; Eggers, D., Fox, T., Crebs, T. with reply from author (geo-59-11-1666-1679): *Geophysics*, **61**, no. 03, 914–915.
- Steenland, N. C., 1996c, Short note - The 1949 algorithm for the rapid interpretation of aeromagnetic data: *Geophysics*, **61**, no. 02, 608–611.
- Steer, D. N., Brown, L. D., Knapp, J. H., and Baird, D. J., 1996, Comparison of explosive and Vibroseis source energy penetration during COCORP deep seismic reflection profiling in the Williston Basin: *Geophysics*, **61**, no. 01, 211–221.
- Stefani, J. P., 1995, Turning-ray tomography: *Geophysics*, **60**, no. 06, 1917–1929.
- Stephan, A., and Strack, K. M., 1991, A simple approach to improve the S/N ratio for TEM data using multiple receivers: *Geophysics*, **56**, no. 06, 863–869.
- Sternberg, B. K., 1991, A review of some experience with the induced-polarization/resistivity method for hydrocarbon surveys: Successes and limitations: *Geophysics*, **56**, no. 10, 1522–1532.
- Sternberg, B. K., 1993, Discussion on 'Removal of static shift in two dimensions by regularized inversion', by C. de Groot-Hedlin (geo-56-12-2102-2106) with reply by the author: *Geophysics*, **58**, no. 04, 598–599.
- Stewart, D. C., Anderson, W. L., Grover, T. P., and Labson, V. F., 1994, Shallow subsurface mapping by electromagnetic sounding in the 300 khz to 30 MHz range: Model studies and prototype system assessment: *Geophysics*, **59**, no. 08, 1201–1210.
- Stewart, R. R., 1991, Rapid map and inversion of P-SV waves (short note): *Geophysics*, **56**, no. 06, 859–862.

- Stockwell, J. W. J., 1995, 2.5-D wave equations and high-frequency asymptotics: *Geophysics*, **60**, no. 02, 556–562.
- Stoffa, P. L., and Sen, M. K., 1991, Nonlinear multiparameter optimization using genetic algorithms: Inversion of plane-wave seismograms: *Geophysics*, **56**, no. 11, 1794–1810.
- Stolt, R. H., 1996, Short note - A prestack residual time migration operator: *Geophysics*, **61**, no. 02, 605–607.
- Stork, C., and Clayton, R. W., 1991, An implementation of tomographic velocity analysis: *Geophysics*, **56**, no. 04, 483–495.
- Stork, C., and Clayton, R. W., 1992, Using constraints to address the instabilities of automated prestack velocity analysis: *Geophysics*, **57**, no. 03, 404–419.
- Stork, C., 1992a, Reflection tomography in the postmigrated domain: *Geophysics*, **57**, no. 05, 680–692.
- Stork, C., 1992b, Singular value decomposition of the velocity-reflector depth tradeoff, part 1: Introduction using a two-parameter model: *Geophysics*, **57**, no. 07, 927–932.
- Stork, C., 1992c, Singular value decomposition of the velocity-reflector depth tradeoff, part 2: High-resolution analysis of a generic model: *Geophysics*, **57**, no. 07, 933–943.
- Straub, A., 1995a, General formulation of the electric stratified problem with a boundary integral equation: *Geophysics*, **60**, no. 06, 1656–1670.
- Straub, A., 1995b, Properties of the kernel function in electric stratified problems: *Geophysics*, **60**, no. 06, 1671–1681.
- Subcommittee, S., 1995, Shell processing support format for land 3-D surveys: *Geophysics*, **60**, no. 02, 596–610.
- Sun, R., and McMechan, G. A., 1991, Depth filtering for one-component seismic data (short note): *Geophysics*, **56**, no. 09, 1482–1485.
- Sun, J., and Young, R. A., 1995, Recognizing surface scattering in ground-penetrating radar data: *Geophysics*, **60**, no. 05, 1378–1385.
- Sun, J., 1994, Geometrical ray theory: Edge-diffracted rays and their traveltimes (second-order approximation of the traveltimes): *Geophysics*, **59**, no. 01, 148–155.
- Sun, J., 1995, 3-D crosswell transmissions: Paraxial ray solutions and reciprocity paradox: *Geophysics*, **60**, no. 03, 810–820.
- Sundararajan, N., 1995, 2-D Hartley transforms: *Geophysics*, **60**, no. 01, 262–267.
- Sutarno, D., and Vozoff, K., 1991, Phase-smoothed robust M-estimation of magnetotelluric impedance functions: *Geophysics*, **56**, no. 12, 1999–2007.

- Swain, C. J., 1996, Short note - Horizontal acceleration corrections in airborne gravimetry: *Geophysics*, **61**, no. 01, 273–276.
- Swan, H. W., 1991, Amplitude-versus-offset measurement errors in a finely layered medium: *Geophysics*, **56**, no. 01, 41–49.
- Symes, W. W., and Carazzone, J. J., 1991, Velocity inversion by differential semblance optimization: *Geophysics*, **56**, no. 05, 654–663.
- Szulyovszky, I., 1991, Resolution comparison of conventional and recursively inverted signals: *Geophysics*, **56**, no. 02, 242–244.
- Takahashi, T., 1995, Prestack migration using arrival angle information: *Geophysics*, **60**, no. 01, 154–163.
- Tang, X., and Cheng, C. H., 1996, Fast inversion of formation permeability from Stoneley wave logs using a simplified Biot-Rosenbaum model: *Geophysics*, **61**, no. 03, 639–645.
- Tang, X. M., Cheng, C. H., and Toksoz, M. N., 1991, Stoneley-wave propagation in a fluid-filled borehole with a vertical fracture: *Geophysics*, **56**, no. 04, 447–460.
- Tang, X. M., Reiter, E. C., and Burns, D. R., 1995, A dispersive-wave processing technique for estimating formation shear velocity from dipole and Stoneley waveforms: *Geophysics*, **60**, no. 01, 19–28.
- Tang, X. M., 1992, A waveform inversion technique for measuring elastic wave attenuation in cylindrical bars: *Geophysics*, **57**, no. 06, 854–859.
- Tang, X. M., 1993, Waveform inversion of seismic velocities and attenuation from low-frequency waves in cylindrical bars: *Geophysics*, **58**, no. 10, 1525–1531.
- Tarantola, A., 1994, Discussion on 'Sensitivity of reflected and transmitted seismic data', by Rune Mittet and Tom Houlder (geo-58-11-1621-1628): *Geophysics*, **59**, no. 09, 1457–1491.
- Tarlowski, C., McEwin, A. J., Reeves, C. V., and Barton, C. E., 1996, Dewarping the composite aeromagnetic anomaly map of Australia using control traverses and base stations: *Geophysics*, **61**, no. 03, 696–705.
- Tatham, R. H., Matthews, M. D., Sekharan, K. K., Wade, C. J., and Liro, L. M., 1992, A physical model study of shear-wave splitting and fracture intensity: *Geophysics*, **57**, no. 04, 647–652.
- Taylor, K., Widmer, M., and Chesley, M., 1992, Use of transient electromagnetics to define local hydrogeology in an arid alluvial environment: *Geophysics*, **57**, no. 02, 343–352.
- Tessmer, E., and Kosloff, D., 1994, 3-D elastic modeling with surface topography by Chebyshev spectral method: *Geophysics*, **59**, no. 03, 464–473.

- Thore, P. D., de Bazelaire, E., and Ray, M. P., 1994, Three-parameter equation: An efficient tool to enhance the stack: *Geophysics*, **59**, no. 02, 297–308.
- Thurston, J. B., and Brown, R. J., 1994, Automated source-edge location with a new variable pass-band, horizontal-gradient operator: *Geophysics*, **59**, no. 04, 546–554.
- Tichelaar, B. W., and van Luik, K. W., 1995, Sonic logging of compressional-wave velocities in a very slow formation: *Geophysics*, **60**, no. 06, 1627–1633.
- Tieman, H. J., 1993, Description of a scanless method of stacking velocity analysis: *Geophysics*, **58**, no. 11, 1596–1606.
- Tieman, H. J., 1994, Investigating the velocity-depth ambiguity of reflection travel-times: *Geophysics*, **59**, no. 11, 1763–1773.
- Tieman, H. J., 1995, Migration velocity analysis: Accounting for the effects of lateral velocity variations: *Geophysics*, **60**, no. 01, 164–175.
- Torres-Verdin, C., and Bostick, F. X. J., 1992a, Implications of the Born approximation for the magnetotelluric problem in three-dimensional environments: *Geophysics*, **57**, no. 04, 587–602.
- Torres-Verdin, C., and Bostick, F. X. J., 1992b, Principles of spatial surface electric field filtering in magnetotellurics: Electromagnetic array profiling (emap): *Geophysics*, **57**, no. 04, 603–622.
- Trantham, E. C., 1993, Minimum uncertainty filters for pulses: *Geophysics*, **58**, no. 06, 853–862.
- Tsingas, C., and Kanasewich, E. R., 1991, Seismic reflection amplitude versus angle variations over a thermally enhanced oil recovery site: *Geophysics*, **56**, no. 02, 292–301.
- Tsokas, G. N., and Papazachos, C. B., 1992, Two-dimensional inversion filters in magnetic prospecting: Application to the exploration for buried antiquities: *Geophysics*, **57**, no. 08, 1004–1013.
- Tsokas, G. N., Papazachos, C. B., Vafidis, A., Loukoyiannakis, M. Z., Vargemezis, G., and Tzimeas, K., 1995, The detection of monumental tombs buried in Tumuli by seismic refraction: *Geophysics*, **60**, no. 06, 1735–1742.
- Tsvankin, I., and Thomsen, L., 1994, Nonhyperbolic reflection moveout in anisotropic media: *Geophysics*, **59**, no. 08, 1290–1304.
- Tsvankin, I., and Thomsen, L., 1995, Inversion of reflection traveltimes for transverse isotropy: *Geophysics*, **60**, no. 04, 1095–1107.
- Tsvankin, I., 1995a, Body-wave radiation patterns and AVO in transversely isotropic media: *Geophysics*, **60**, no. 05, 1409–1425.

- Tsvankin, I., 1995b, Normal moveout from dipping reflectors in anisotropic media: *Geophysics*, **60**, no. 01, 268–284.
- Tsvankin, I., 1996, P-wave signatures and notation for transversely isotropic media: An overview: *Geophysics*, **61**, no. 02, 467–483.
- Tura, M. A. C., Johnson, L. R., Majer, E. L., and Peterson, J. E., 1992, Application of diffraction tomography to fracture detection: *Geophysics*, **57**, no. 02, 245–257.
- Tura, M. A. C., Greaves, R. J., and Beydoun, W. B., 1994, Crosswell seismic reflection/diffraction tomography: A reservoir characterization application: *Geophysics*, **59**, no. 03, 351–361.
- Turner, G., and Siggins, A. F., 1994, Constant Q attenuation of subsurface radar pulses: *Geophysics*, **59**, no. 08, 1192–1200.
- Turner, G., 1994, Subsurface radar propagation deconvolution: *Geophysics*, **59**, no. 02, 215–223.
- Tutuncu, A. N., and Sharma, M. M., 1992, The influence of fluids on grain contact stiffness and frame moduli in sedimentary rocks: *Geophysics*, **57**, no. 12, 1571–1582.
- Tutuncu, A. N., Podio, A. L., and Sharma, M. M., 1994, Experimental investigation of factors influencing compressional-and shear-wave velocities and attenuations in tight gas sandstones: *Geophysics*, **59**, no. 01, 77–86.
- Tygel, M., Huck, H., and Hubral, P., 1991a, Mixed-delay wavelet deconvolution of the point-source seismogram: *Geophysics*, **56**, no. 09, 1405–1411.
- Tygel, M., Leykam, A., Hubral, P., Amorim, W. N., and Pestana, R., 1991b, Transforming a point-source seismogram into a beam seismogram: *Geophysics*, **56**, no. 11, 1819–1826.
- Tygel, M., Schleicher, J., and Hubral, P., 1992, Geometrical spreading corrections of offset reflections in a laterally inhomogeneous earth: *Geophysics*, **57**, no. 08, 1054–1063.
- Tygel, M., Schleicher, J., Hubral, P., and Hanitzsch, C., 1993, Multiple weights in diffraction stack migration: *Geophysics*, **58**, no. 12, 1820–1830.
- Tygel, M., Schleicher, J., and Hubral, P., 1994, Pulse distortion in depth migration: *Geophysics*, **59**, no. 10, 1561–1569.
- Tygel, M., Schleicher, J., and Hubral, P., 1996, A unified approach to 3-D seismic reflection imaging, part II: Theory: *Geophysics*, **61**, no. 03, 759–775.
- Uko, E. D., Ekine, A. S., Ebinero, J. O., and Ofoegbu, C. O., 1992, Weathering structure of East Niger Delta, Nigeria: *Geophysics*, **57**, no. 09, 1228–1233.

- Ulrych, T. J., and Matsuoka, T., 1991, The output of predictive deconvolution: *Geophysics*, **56**, no. 03, 371–377.
- Unsworth, M. J., Travis, B. J., and Chave, A. D., 1993, Electromagnetic induction by a finite electric dipole source over a 2-D earth: *Geophysics*, **58**, no. 02, 198–214.
- Ursin, B., and Ekren, B. O., 1995, Robust AVO analysis: *Geophysics*, **60**, no. 02, 317–326.
- Uzcategui, O., 1995, 2-D depth migration in transversely isotropic media using explicit operators: *Geophysics*, **60**, no. 06, 1819–1829.
- V, F. J. L., Vail, P. J., Smith, G. C., Strauss, P. J., and Levitt, P. R., 1994, Detection of gas in sandstone reservoirs using AVO analysis: A 3-D seismic case history using the geostack technique: *Geophysics*, **59**, no. 09, 1362–1376.
- Vafidis, A., Abramovici, F., and Kanasevich, E. R., 1992, Elastic wave propagation using fully vectorized, high-order finite-difference algorithms: *Geophysics*, **57**, no. 02, 218–232.
- Valla, P., 1996, Discussion on 'Apparent resistivity curves in controlled-source electromagnetic sounding directly reflecting true resistivities in a layered earth', by Das, U. C. with reply by author (geo-60-1-53-60): *Geophysics*, **61**, no. 03, 918–919.
- Vallee, M. A., Chouteau, M., and Palacky, G. J., 1992a, Effect of temporal and spatial variations of the primary signal on VLF total-field surveys: *Geophysics*, **57**, no. 01, 97–105.
- Vallee, M. A., Chouteau, M., and Palacky, G. J., 1992b, Variations of the VLF-EM primary field: Analysis of airborne survey data, New Brunswick, Canada: *Geophysics*, **57**, no. 01, 181–186.
- Valliant, H. D., 1991, Gravity meter calibration at LaCoste and Romberg: *Geophysics*, **56**, no. 05, 705–711.
- Van, G. P., Park, S. K., and Hamilton, P., 1991, Monitoring leaks from storage ponds using resistivity methods (short note): *Geophysics*, **56**, no. 08, 1267–1270.
- van Borselen, R. G., Fokkema, J. T., and van den Berg, P. M., 1996, Removal of surface-related wave phenomena - The marine case: *Geophysics*, **61**, no. 01, 202–210.
- van Schaack, M., Harris, J. M., Rector, J. W. I., and Lazaratos, S. K., 1995, High-resolution crosswell imaging of a West Texas carbonate reservoir: Part 2: Wavefield modeling and analysis: *Geophysics*, **60**, no. 03, 682–691.
- van Trier, J., and Symes, W. W., 1991, Upwind finite-difference calculation of travel-times: *Geophysics*, **56**, no. 06, 812–821.
- Vandecar, J. C., and Snieder, R., 1994, Obtaining smooth solutions to large, linear, inverse problems: *Geophysics*, **59**, no. 05, 818–829.

- Vanhala, H., and Peltoniemi, M., 1992, Spectral IP studies of Finnish ore prospects: *Geophysics*, **57**, no. 12, 1545–1555.
- Vanhala, H., Soininen, H., and Kukkonen, I., 1992, Detecting organic chemical contaminants by spectral induced-polarization method in glacial till environment: *Geophysics*, **57**, no. 08, 1014–1017.
- Varela, C. L., Rosa, A. L. R., and Ulrych, T. J., 1993, Modeling of attenuation and dispersion: *Geophysics*, **58**, no. 08, 1167–1173.
- Varnick, J. W., 1991, Discussion on 'Why don't we measure seismic signatures?', by A. Ziolkowski (geo-56-2-190-201): *Geophysics*, **56**, no. 11, 1905.
- Vasco, D. W., and Taylor, C., 1991, Inversion of airborne gravity gradient data, southwestern Oklahoma: *Geophysics*, **56**, no. 01, 90–101.
- Vasco, D. W., Peterson, J. E. J., and Majer, E. L., 1995, Beyond ray tomography: Wavepaths and Fresnel volumes: *Geophysics*, **60**, no. 06, 1790–1804.
- Vasco, D. W., Peterson, J. E. J., and Majer, E. L., 1996a, Nonuniqueness in travel-time tomography: Ensemble inference and cluster analysis: *Geophysics*, **61**, no. 04, 1209–1227.
- Vasco, D. W., Peterson, J. E. J., and Majer, E. L., 1996b, A simultaneous inversion of seismic traveltimes and amplitudes for velocity and attenuation: *Geophysics*, **61**, no. 06, 1738–1757.
- Vasco, D. W., 1991, Bounding seismic velocities using a tomographic method: *Geophysics*, **56**, no. 04, 472–482.
- Vasudevan, K., Wilson, W. G., and Laidlaw, W. G., 1991, Simulated annealing statics computation using an order-based energy function: *Geophysics*, **56**, no. 11, 1831–1839.
- Velis, D. R., and Ulrych, T. J., 1996, Simulated annealing wavelet estimation via fourth-order cumulant matching: *Geophysics*, **61**, no. 06, 1939–1948.
- Verma, S. K., and Sharma, S. P., 1995, Focused resolution of thin conducting layers by various dipole EM systems: *Geophysics*, **60**, no. 02, 381–389.
- Vermeer, G. J. O., 1995, Discussion on '3-D true-amplitude finite-offset migration', by J. Schleicher, M. Tygel, and P. Hubral with reply (geo-58-8-1112-1126): *Geophysics*, **60**, no. 03, 921–923.
- Vernik, L., and Nur, A., 1992, Ultrasonic velocity and anisotropy of hydrocarbon source rocks: *Geophysics*, **57**, no. 05, 727–735.
- Vernik, L., 1993, Microcrack-induced versus intrinsic elastic anisotropy in mature HC-source shales (short note): *Geophysics*, **58**, no. 11, 1703–1706.

- Vernik, L., 1994a, Hydrocarbon-generation - Induced microcracking of source rocks: *Geophysics*, **59**, no. 04, 555–563.
- Vernik, L., 1994b, Predicting lithology and transport properties from acoustic velocities based on petrophysical classification of siliciclastics: *Geophysics*, **59**, no. 03, 420–427.
- Verschuur, D. J., Berkhout, A. J., and Wapenaar, C. P. A., 1992, Adaptive surface-related multiple elimination: *Geophysics*, **57**, no. 09, 1166–1177.
- Versteeg, R. J., 1993, Sensitivity of prestack depth migration to the velocity model: *Geophysics*, **58**, no. 06, 873–882.
- Vinje, V., Iversen, E., and Gjoystdal, H., 1993, Traveltime and amplitude estimation using wavefront construction: *Geophysics*, **58**, no. 08, 1157–1166.
- Virieux, J., and Farra, V., 1991, Ray tracing in 3-D complex isotropic media: An analysis of the problem: *Geophysics*, **56**, no. 12, 2057–2069.
- Vo-Thanh, D., 1991, Effects of fluid viscosity on shear-wave attenuation in partially saturated sandstone: *Geophysics*, **56**, no. 08, 1252–1258.
- von Seggern, D., 1991, Spatial resolution of acoustic imaging with the Born approximation: *Geophysics*, **56**, no. 08, 1185–1202.
- von Seggern, D., 1994, Depth-imaging resolution of 3-D seismic recording patterns: *Geophysics*, **59**, no. 04, 564–576.
- Vulkan, U., and Duval, J. S., 1993, Multivariate statistical analysis of geophysical data in Nevada: *Geophysics*, **58**, no. 05, 749–755.
- Wait, J. R., and Nabulsi, K. A., 1996, Wave tilt of radio waves propagating over a layered ground: *Geophysics*, **61**, no. 06, 1647–1652.
- Wait, J. R., 1994, Discussion on 'The electric field of a borehole with a casing', by A. Kaufman (geo-55-1-29-38); and 'A transmission line model for electrical logging through casing', by A. Kaufman and W. Wightman (geo-58-12-1739-1747): *Geophysics*, **59**, no. 05, 850–851.
- Wait, J. R., 1995, Analytical solution of the borehole resistivity casing problem (short note): *Geophysics*, **60**, no. 04, 1261–1264.
- Walker, P. W., and West, G. F., 1991, A robust integral equation solution for electromagnetic scattering by a thin plate in conductive media: *Geophysics*, **56**, no. 08, 1140–1152.
- Walker, P. W., and West, G. F., 1992, Parametric estimators for current excitation on a thin plate: *Geophysics*, **57**, no. 06, 766–773.
- Wang, T., and Hohmann, G. W., 1993, A finite-difference time-domain solution for three-dimensional electromagnetic modeling: *Geophysics*, **58**, no. 06, 797–809.

- Wang, L. X., and Mendel, J. M., 1992, Adaptive minimum prediction-error deconvolution and source wavelet estimation, using Hopfield neural networks: *Geophysics*, **57**, no. 05, 670–679.
- Wang, T., and Tripp, A. C., 1996, FDTD simulation of EM wave propagation in 3-D media: *Geophysics*, **61**, no. 01, 110–120.
- Wang, C.-S., Tang, J., and Zhao, B., 1991a, An improvement on D norm deconvolution: A fast algorithm and the related procedure: *Geophysics*, **56**, no. 05, 675–680.
- Wang, Z., Hirsche, W. K., and Sedgwick, G., 1991b, Seismic monitoring of water floods? A petrophysical study: *Geophysics*, **56**, no. 10, 1614–1623.
- Wang, T., Tripp, A. C., and Hohmann, G. W., 1995, Studying the TEM response of a 3-D conductor at a geological contact using the FDTD method (short note): *Geophysics*, **60**, no. 04, 1265–1269.
- Wang, S., Liu, J., and Xie, G., 1996, 2-D acoustic wave equation inversion combining plane-wave seismograms with well logs: *Geophysics*, **61**, no. 03, 735–741.
- Wannamaker, P. E., Wright, P. M., Zi-Xing, Z., Xing-Bin, L., and Jing-Xiang, Z., 1991, Magnetotelluric transect of Long Valley caldera: Resistivity cross-section, structural implications, and the limits of a 2-D analysis: *Geophysics*, **56**, no. 07, 926–940.
- Wannamaker, P. E., 1991, Advances in three-dimensional magnetotelluric modeling using integral equations: *Geophysics*, **56**, no. 11, 1716–1728.
- Wapenaar, C. P. A., and Herrmann, F. J., 1996, True-amplitude migration taking fine layering into account: *Geophysics*, **61**, no. 03, 795–803.
- Wapenaar, C. P. A., Verschuur, D. J., and Herrmann, P., 1992, Amplitude preprocessing of single- and multicomponent seismic data: *Geophysics*, **57**, no. 09, 1178–1188.
- Wapenaar, C. P. A., 1996, Inversion versus migration: A new perspective to an old discussion: *Geophysics*, **61**, no. 03, 804–814.
- Warren, R. K., and Srnka, L. J., 1992, Exploration in the basalt-covered areas of the Columbia River basin, Washington, using electromagnetic array profiling (emap): *Geophysics*, **57**, no. 08, 986–993.
- Watson, K., Rowan, L. C., Bowers, T. L., Anton-Pacheco, C., Gumiell, P., and Miller, S. H., 1996, Lithologic analysis from multispectral thermal infrared data of the alkalic rock complex at Iron Hill, Colorado: *Geophysics*, **61**, no. 03, 706–721.
- Watson, K., 1993, Processing remote sensing images using the 2-D FFT-noise reduction and other applications: *Geophysics*, **58**, no. 06, 835–852.
- Webster, S., 1995, Discussion on 'The application of TEM to Cyprus-type massive sulfide exploration in Cyprus', by N. J. Cooper and R. Swift with reply (geo-59-2-202-214): *Geophysics*, **60**, no. 05, 1584.

- Wenzel, F., 1991, Frequency-wavenumber migration in laterally heterogeneous media (short note): *Geophysics*, **56**, no. 10, 1671–1673.
- Whitcombe, D. N., and Carroll, R. J., 1994, Application of map migration to 2-D migrated data: *Geophysics*, **59**, no. 07, 1121–1132.
- Whitcombe, D. N., Murray, E. H. J., Aubin, L. A. S., and Carroll, R. J., 1994, Application of 3-D depth migration to the development of an Alaskan offshore oil field: *Geophysics*, **59**, no. 10, 1551–1560.
- Whitcombe, D. N., 1994, Fast model building using demigration and single-step ray migration: *Geophysics*, **59**, no. 03, 439–449.
- White, R. E., 1992, The accuracy of estimating Q from seismic data (short note): *Geophysics*, **57**, no. 11, 1508–1511.
- White, P. A., 1994, Electrode arrays for measuring groundwater flow direction and velocity: *Geophysics*, **59**, no. 02, 192–201.
- Whitman, W. W., 1991, A microgal approximation for the Bullard B - Earth's curvature - Gravity correction: *Geophysics*, **56**, no. 12, 1980–1985.
- Widmaier, M. T., Shapiro, S. A., and Hubral, P., 1996, AVO correction for scalar waves in the case of a thinly layered reflector overburden: *Geophysics*, **61**, no. 02, 520–528.
- Williamson, P. R., and Pratt, R. G., 1995, A critical review of acoustic wave modeling procedures in 2.5 dimensions (short note): *Geophysics*, **60**, no. 02, 591–595.
- Williamson, P. R., and Worthington, M. H., 1993, Resolution limits in ray tomography due to wave behavior: Numerical experiments: *Geophysics*, **58**, no. 05, 727–735.
- Williamson, P. R., 1991, A guide to the limits of resolution imposed by scattering in ray tomography: *Geophysics*, **56**, no. 02, 202–207.
- Wilson, W. G., Laidlaw, W. G., and Vasudevan, K., 1994, Residual statics estimation using the genetic algorithm: *Geophysics*, **59**, no. 05, 766–774.
- Wilt, M. J., Alumbaugh, D. L., Morrison, H. F., Becker, A., Lee, K. H., and Deszczpan, M., 1995, Crosswell electromagnetic tomography: System design considerations and field results: *Geophysics*, **60**, no. 03, 871–885.
- Winbow, G. A., 1991a, Borehole stresses created by downhole seismic sources (short note): *Geophysics*, **56**, no. 07, 1055–1057.
- Winbow, G. A., 1991b, Seismic sources in open and cased boreholes: *Geophysics*, **56**, no. 07, 1040–1050.
- Winterstein, D. F., and Meadows, M. A., 1991a, Changes in shear-wave polarization azimuth with depth in Cymric and Railroad Gap oil fields: *Geophysics*, **56**, no. 09, 1349–1364.

- Winterstein, D. F., and Meadows, M. A., 1991b, Shear-wave polarizations and subsurface stress directions at Lost Hills field: *Geophysics*, **56**, no. 09, 1331–1348.
- Winterstein, D. F., 1992, Discussion on 'Field measurements of azimuthal anisotropy: First 60 meters, San Francisco Bay area, CA, and estimation of the horizontal stresses' ratio from  $V_{s1}/V_{s2}$ ' by H. B. Lynn (geo-56-6-822-832) with reply by the author: *Geophysics*, **57**, no. 04, 653–656.
- Withers, R., Eggers, D., Fox, T., and Crebs, T., 1994, Case study of integrated hydrocarbon exploration through basalt: *Geophysics*, **59**, no. 11, 1666–1679.
- Witten, A., Gillette, D. D., Sypniewski, J., and King, W. C., 1992, Geophysical diffraction tomography at a dinosaur site: *Geophysics*, **57**, no. 01, 187–195.
- Woodham, C. A., Sandham, W. A., and Durrani, T. S., 1995a, 3-D seismic tracking with probabilistic data association: *Geophysics*, **60**, no. 04, 1088–1094.
- Woodham, C. A., Sandham, W. A., and Durrani, T. S., 1995b, Error analysis for the seismic PDA tracker: *Geophysics*, **60**, no. 05, 1451–1456.
- Woodward, M. J., 1992, Wave-equation tomography: *Geophysics*, **57**, no. 01, 15–26.
- Woodward, D. J., 1993, Inversion of aeromagnetic data using digital terrain models: *Geophysics*, **58**, no. 05, 645–652.
- Worley, S. C., 1993, The geometry of reflection: *Geophysics*, **58**, no. 02, 293–297.
- Wu, X., and Habashy, T. M., 1994, Influence of steel casings on electromagnetic signals: *Geophysics*, **59**, no. 03, 378–390.
- Wu, W. J., Lines, L. R., and Lu, H. X., 1996, Analysis of higher-order, finite-difference schemes in 3-D reverse-time migration: *Geophysics*, **61**, no. 03, 845–856.
- Wu, J., 1996, Short note - Potential pitfalls of crooked-line seismic reflection surveys: *Geophysics*, **61**, no. 01, 277–281.
- Wurmstich, B., and Morgan, F. D., 1994, Modeling of streaming potential responses caused by oil well pumping: *Geophysics*, **59**, no. 01, 46–56.
- Xia, J., and Sprowl, D. R., 1991, Correction of topographic distortion in gravity data: *Geophysics*, **56**, no. 04, 537–541.
- Xia, J., and Sprowl, D. R., 1992, Inversion of potential-field data by iterative forward modeling in the wavenumber domain: *Geophysics*, **57**, no. 01, 126–130.
- Xia, J., Sprowl, D. R., and Adkins-Heljeson, D., 1993, Correction of topographic distortions in potential-field data: A fast and accurate approach: *Geophysics*, **58**, no. 04, 515–523.
- Xiong, Z., and Tripp, A. C., 1995, A block iterative algorithm for 3-D electromagnetic modeling using integral equations with symmetrized substructures (short note): *Geophysics*, **60**, no. 01, 291–295.

- Xiong, Z., 1992a, Electromagnetic modeling of 3-D structures by the method of system iteration using integral equations: *Geophysics*, **57**, no. 12, 1556–1561.
- Xiong, Z., 1992b, Symmetry properties of the scattering matrix in 3-D electromagnetic modeling using the integral equation method (short note): *Geophysics*, **57**, no. 09, 1199–1202.
- Xu, Y., Gardner, G. H. F., and McDonald, J. A., 1993, Some effects of velocity variation on AVO and its interpretation: *Geophysics*, **58**, no. 09, 1297–1300.
- Xu, T., McMechan, G. A., and Sun, R., 1995, 3-D prestack full-wavefield inversion: *Geophysics*, **60**, no. 06, 1805–1818.
- Yamamoto, T., Nye, T., and Kuru, M., 1994, Porosity, permeability, shear strength: Crosswell tomography below an iron foundry: *Geophysics*, **59**, no. 10, 1530–1541.
- Yamamoto, T., Nye, T., and Kuru, M., 1995, Imaging the permeability structure of a limestone aquifer by crosswell acoustic tomography: *Geophysics*, **60**, no. 06, 1634–1645.
- Yang, C. H., and Tseng, H. W., 1992, Topographic responses in magnetometric resistivity modeling: *Geophysics*, **57**, no. 11, 1409–1418.
- Yarger, H. L., 1992, Discussion on 'The generalized gravity anomaly: Endoscopic microgravity' (geo-56-5-712-723), by J. Lakshmanan: *Geophysics*, **57**, no. 08, 1095–1097.
- Yilmaz, O., and Taner, M. T., 1994, Discrete plane-wave decomposition by least-mean-square-error method: *Geophysics*, **59**, no. 06, 973–982.
- Yokoi, T., 1996, Numerical study on the generation of downgoing S-waves by a vertical force acting close to a step-like topography: *Geophysics*, **61**, no. 01, 192–201.
- Yoon, K. H., and McMechan, G. A., 1992, 3-D finite-difference modeling of elastic waves in borehole environments: *Geophysics*, **57**, no. 06, 793–804.
- Yu, G., Vozoff, K., and Durney, D. W., 1993, The influence of confining pressure and water saturation on dynamic elastic properties of some Permian coals: *Geophysics*, **58**, no. 01, 30–38.
- Zahradnik, J., O'Leary, P., and Sochacki, J. S., 1994, Finite-difference schemes for elastic waves based on the integration approach: *Geophysics*, **59**, no. 06, 928–937.
- Zanzi, L., and Carlini, A., 1991, Refraction statics in the wavenumber domain: *Geophysics*, **56**, no. 10, 1661–1670.
- Zanzi, L., 1996, The WIM method for refraction statics: *Geophysics*, **61**, no. 06, 1859–1870.
- Zeng, X., and West, G. F., 1996, Reducing spurious diffractions in elastic wavefield calculations: *Geophysics*, **61**, no. 05, 1436–1439.

- Zeng, X., McMechan, G. A., Cai, J., and Chen, H. W., 1995, Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar profiles: *Geophysics*, **60**, no. 06, 1727–1734.
- Zhang, J., and McMechan, G. A., 1994, 3-D transmission tomography using wide aperture data for velocity estimation of irregular salt bodies: *Geophysics*, **59**, no. 10, 1620–1630.
- Zhang, Y. C., Shen, L. C., and Liu, C., 1994, Inversion of induction logs based on maximum flatness, maximum oil, and minimum oil algorithms: *Geophysics*, **59**, no. 09, 1320–1326.
- Zhang, J., Mackie, R. L., and Madden, T. R., 1995, 3-D resistivity forward modeling and inversion using conjugate gradients: *Geophysics*, **60**, no. 05, 1313–1325.
- Zhang, M., Ebrom, D. A., McDonald, J. A., and Tatham, R. H., 1996a, Comparison of experimental velocity measurements with theoretical results in a solid-solid composite material: *Geophysics*, **61**, no. 05, 1429–1435.
- Zhang, Y. C., Liu, C., and Shen, L. C., 1996b, An iterative algorithm for conductivity image reconstruction from crosswell EM measurements: *Geophysics*, **61**, no. 04, 987–997.
- Zhang, Y. X., 1994, Aeromagnetic anomalies and prospective oil traps in China: *Geophysics*, **59**, no. 10, 1492–1499.
- Zhao, S., and Yedlin, M. J., 1996a, Multidomain Chebyshev spectral method for 3-D DC resistivity modeling: *Geophysics*, **61**, no. 06, 1616–1623.
- Zhao, S., and Yedlin, M. J., 1996b, Some refinements on the finite-difference method for 3-D DC resistivity modeling: *Geophysics*, **61**, no. 05, 1301–1307.
- Zhao, H., Ursin, B., and Amundsen, L., 1994, Frequency-wavenumber elastic inversions of marine seismic data: *Geophysics*, **59**, no. 12, 1868–1881.
- Zhdanov, M. S., and Fang, S., 1996, Quasi-linear approximation in 3-D electromagnetic modeling: *Geophysics*, **61**, no. 03, 646–665.
- Zhdanov, M. S., Traynin, P., and Booker, J. R., 1996, Underground imaging by frequency-domain electromagnetic migration: *Geophysics*, **61**, no. 03, 666–682.
- Zhong, B., Zhou, X., Liu, X., and Jiang, Y., 1995, A new strategy for CCP stacking: *Geophysics*, **60**, no. 02, 517–521.
- Zhou, B., and Greenhalgh, S. A., 1994a, Linear and parabolic g-p transforms revisited: *Geophysics*, **59**, no. 07, 1133–1149.
- Zhou, B., and Greenhalgh, S. A., 1994b, Wave-equation extrapolation-based multiple attenuation: 2-D filtering in the f-k domain: *Geophysics*, **59**, no. 09, 1377–1391.

- Zhou, Q., and Hilliker, D. J., 1991, MWD resistivity tool response in a layered medium: *Geophysics*, **56**, no. 11, 1738–1748.
- Zhou, Q., Becker, A., and Morrison, H. F., 1993, Audio-frequency electromagnetic tomography in 2-D: *Geophysics*, **58**, no. 04, 482–495.
- Zhou, C., Cai, W., Luo, Y., Schuster, G. T., and Hassanzadeh, S., 1995, Acoustic wave-equation travelttime and waveform inversion of crosshole seismic data: *Geophysics*, **60**, no. 03, 765–773.
- Zhou, B., Mason, I. M., and Greenhalgh, S. A., 1996, An accurate formulation of log-stretch dip moveout in the frequency-wavenumber domain: *Geophysics*, **61**, no. 03, 815–820.
- Zhou, B., 1992, Discussion on 'The use of Hartley transform in geophysical applications' (geo-55-11-1488-1495) (r. Saatcilar, S. Ergintav, and N. Canitez) and 'Solving elastic wave equations with the Hartley method' (r. Saatcilar and S. Ergintav) (geo-56-2-274-278) with: *Geophysics*, **57**, no. 01, 196–197.
- Zhou, H. W., 1993, Travelttime tomography with a spatial-coherency filter: *Geophysics*, **58**, no. 05, 720–726.
- Zhu, X., and McMechan, G. A., 1991, Numerical simulation of seismic responses of poroelastic reservoirs using Biot theory: *Geophysics*, **56**, no. 03, 328–339.
- Zimmerman, L. J., and Chen, S. T., 1993, Comparison of vertical seismic profiling techniques: *Geophysics*, **58**, no. 01, 134–140.
- Zinni, E. V., 1995, Subsurface fault detection using seismic data for hazardous-waste-injection well permitting: An example from St. John the Baptist Parish, Louisiana: *Geophysics*, **60**, no. 02, 468–475.
- Ziolkowski, A., and Bokhorst, K., 1993, Determination of the signature of a dynamite source using source scaling, part II: Experiment: *Geophysics*, **58**, no. 08, 1183–1194.
- Ziolkowski, A., and Slob, E., 1991, Can we perform statistical deconvolution by polynomial factorization: *Geophysics*, **56**, no. 09, 1423–1431.
- Ziolkowski, Z., 1991, Why don't we measure seismic signatures?: *Geophysics*, **56**, no. 02, 190–201.
- Ziolkowski, A., 1993, Determination of the signature of a dynamite source using source scaling, part I: Theory: *Geophysics*, **58**, no. 08, 1174–1182.