Chronological Cumulative Contents to SEP Report Volumes 1 to 27

1:1 Two Dimensional Inhomogeneous Media Wave Calculations -- migration -- *Claerbout*
1:8 A Tutorial on Monochromatic Waves -- *Estevez*
1:41 Approximations to the Wave Propagation Transfer Function -- migration -- *Schultz*
1:60 A Benchmark Program for Migration or Diffraction -- *Riley*
1:73 Two Techniques for Wave Equation Migration -- computation -- *Claerbout*
1:82 First Problem for Post Doc -- migration -- *Claerbout*
1:83 Noah's Method of Deconvolution by Flooding -- *Claerbout*
1:89 One Dimensional Noah's Deconvolution -- computation -- *Riley*
1:100 Calculation of Diffracted Multiple Reflections -- computation -- *Claerbout* and *Riley*
1:106 Computing Diffracted Multiples -- *Riley* and *Claerbout*
1:126 Preliminary Results on Diffracted Multiple Modeling and Removal -- *Riley*
1:136 Separate Downward Continuation of Shots and Receivers -- migration -- *Doherty* and *Claerbout*
1:141 Transformations and Migration Equations -- *Doherty*
1:157 Reconciliation of Various Downward Continuation Equations -- migration -- *Doherty* and *Claerbout*
1:160 Velocity Analysis Based on the Wave Equation -- *Doherty* and *Claerbout*
1:179 Some Speculative Ideas on Velocity Estimation -- *Claerbout*
1:189 Extrapolation of Magnetotelluric Fields -- electric -- *Brune* and *Claerbout*
1:229 Conductivity of Porosity Relationship in Rocks -- electric -- *Madden*
1:256 Curve Fitting in Geophysical Inverse Problems -- *Claerbout*
1:263 Impedance Estimation -- *Claerbout* and *Madden*
1:272 L1 Norm Program and Test Case -- non Gaussian computation -- *Claerbout*
1:279 Slant Frames -- *Claerbout*
1:283 Imaging with Refraction Seismograms -- slant -- *Claerbout*
1:287 Dispersion Relationship for the Slant Frames Approximation -- *Estevez* and *Schultz*
1:296 Predictive Deconvolution Implies the Earthquake Geometry -- *Riley*
1:304 General Principles for Estimation of Covariance Matrices -- *Burg*
1:318 Recommendations Concerning Maximum Entropy Spectral Estimation -- time series -- *Burg*
1:327 An Algorithm for Obtaining the Correlation Functions Between Forward /-- time seri
1:337 Wave Propagation on the Surface of a Sphere -- computation -- *Funkhouser*
1:369 Description of Plot Tapes -- *Riley*

2:2 Migration as a Tool in Velocity Estimation -- *Doherty*
2:8 Migration of Common Offset Sections -- *Doherty*
2:17 Preliminary Results on Downward Continuation of Multi Offset Sections/-- *Doherty*
2:26 Seismic Velocities in Porous and Fissured Rocks -- *Nur* et al
2:38 Slanted Beam Coupling -- *Estevez*
2:44 Shifting Frames -- slant -- *Claerbout*
2:48 A Data Oriented Shifting Frame -- slant -- *Claerbout*
2:54 A Reversible Shifting Frame -- slant -- *Claerbout*
2:56 A Wide Offset Migration Equation -- *Claerbout*
2:62 The Emergent Angle Frame -- slant -- *Claerbout*
2:67 An Expanding Time Scale -- migration -- *Claerbout*
2:69 The Emergent Angle Frame for Sections -- slant -- *Doherty*
2:73 A Shot Offset Frame for Velocity Estimation -- *Claerbout*
2:78 Two Stratified Media Frames -- *Claerbout*
2:82 An Offset Squared Transformation -- frames -- *Claerbout*
2:85 Migration Equation Coefficients for An Emergent Angle Frame in Strati/-- slant -- *Estevez*
2:101 The Balanced Two Way Merge Algorithm -- migration computation -- *Dunbar*
2:109 An Explicit Scheme -- migration computation -- *Claerbout*
2:114 An Explicit Scheme for the Wave Equation -- migration computation -- *Claerbout*
2:119 Migration Equations for Inhomogeneous Media -- computation -- *Starius*
2:127 X Outer Migration -- computation -- *Dunbar*
2:141 Final Report on Magnetotelluric Field Extrapolation -- electric -- *Brune*
2:160 Different Approximations to Vertical Derivative Operators in Potentia/-- electric -- *Courtillot*
2:166 The Downward Continuation of Sources and Receivers in Resistivity Sur/-- electric mig
2:184 Terrain Noise Suppression Filter for Magnetic Profiles -- electric time series computation -- *Dunbar*
2:196 The General Variational Approach -- time series -- *Burg*
2:205 An Example in which Consistency is Equivalent to Positive Definitenes/-- tim
2:211 Multichannel Maximum Entropy Spectral Analysis -- time series -- *Burg*
2:217 Two Dimensional Maximum Entropy Spectral Analysis -- time series -- *Burg*
2:225 Estimation of a Two Dimensional Correlation Matrix (An Example) -- time series -- *Burg*

2:236 A Proposal for Wave Theory Analysis of Statics Corrections -- *Schultz*
2:240 Computer Program for Diffracted Multiple Reflections -- *Riley*
2:265 Introductory Material -- *Claerbout*, Last Two Chapters of Book -- tutorial --

3:0 Wave Equation Synthesis and Inversion of Diffracted Multiple Seismic /-- thesis -- *Riley*
3:4 One Dimensional Noah's Deconvolution -- time series multiples -- *Riley*
3:20 The Two Dimensional Forward Problem -- multiples -- *Riley*
3:65 The Two Dimensional Inverse Problem -- multiples computation -- *Riley*

4:0 Structure Independent Seismic Velocity Estimation -- thesis field data -- *Doherty*

5:1 Slant Stacks and Radial Traces -- multiples -- *Claerbout*
5:13 Slant Stacks & Diffracted Multiples -- *Claerbout*
5:16 Preliminary One Dimensional Slant Synthetics -- multiples -- *Estevez*
5:20 Slant Frames in Layered Media -- multiples -- *Estevez*
5:43 Modeling Diffractions of the Transmitted Wave (A Discussion) -- lateral velocity -- *Schultz*
5:51 Transmission Compensated Migration of Vertically Stacked (Plane Wave)/-- lateral velocity -- *Schultz*
5:66 Preliminary Results on Synthesis and Migration of Transmission Distor/-- lateral velocit
5:79 A Fast and Accurate Shifting Scheme -- computation slant -- *Schultz*
5:90 X Outer Migration Example -- *Claerbout*
5:95 Migration Equation Coefficients for a Shot Offset Frame in Layered M/-- *Estevez*
5:102 Numerical Viscosity Dip Filtering -- migration attenuation -- *Doherty* and *Claerbout*
5:110 Variational Principles and Approximate Solutions for the Wave Equatio/-- numeric -- *Dunbar*
5:123 Separation of the Forward and Backward Solutions of the One Dimensio/-- *Anderssen*
5:134 The Need for L1 Norm Algorithms for Seismic Decomposition -- time series -- *Claerbout*
5:138 Single and Multichannel Maximum Entropy -- time series non Gaussian -- *Burg*
5:220 Velocity Estimation Recapitulated -- tutorial -- *Claerbout*

6:0 Maximum Entropy Spectral Analysis -- thesis -- *Burg*
6:1 The Maximum Entropy Variational Principle for Single Channel Power Sp/-- time series -- *Burg*
6:6 Single Channel Maximum Entropy Spectral Analysis from Autocorrelatio/-- time series -- *Burg*
6:8 Solution of the Variational Formulation -- time series -- *Burg*
6:19 Extending the Autocorrelation Function -- time series -- *Burg*
6:39 Time Series Derivations and the Burg Estimation Technique -- time series -- *Burg*
6:55 The Importance of the (R(0), C1 , C2 , ...) Description -- time series -- *Burg*
6:68 Multichannel Maximum Entropy Spectral Analysis from Autocorrelation M/-- time series -- *Burg*
6:69 The Entropy of a Multichannel Time Series -- *Burg*
6:73 The Solution of the Multichannel Variational Formulation -- time series -- *Burg*
6:82 Extending the Multichannel Autocorrelation Function -- time series -- *Burg*
6:109 Determination of Pure Line Spectra -- *Burg*
6:119 Manipulations of the Multichannel Equations -- *Burg*

7:1 Slanted Multiple Reflection Calculation -- *Claerbout*
7:15 Multiplets -- *Claerbout*
7:30 Coupled Slanted Waves, Monochromatic Derivation -- multiples -- *Claerbout*
7:33 Coupled Slanted Beams, Equations for Multiples Program -- *Claerbout*
7:36 Slant Midpoint Coordinates -- *Claerbout*
7:43 Slant Multiple Reflections -- *Khanna*
7:66 A Stratified Media Slant Frame -- velocity -- *Schultz*
7:75 Estimating the Shifting Function -- velocity slant -- *Schultz*
7:89 Slant Plane Wave Interpretation Coordinates -- *Claerbout*
7:94 Velocity Estimation with Slant Stacks, Part 1 -- *Claerbout*
7:102 Preliminary P Stacks -- slant -- *Schultz*
7:133 High Order Difference Approximations to the Differential Equation P,z/-- *Engquist*
7:167 Maximum Entropy Source Waveform Estimation -- deconvolution non Gaussian -- *Claerbout*
7:172 Spectral Balancing -- time series -- *Claerbout*
7:183 Spectral Balancing Example -- time series -- *Khanna*
7:186 L1 Norm Spectral Estimation -- time series -- *Canales*
7:194 The "Star Product" in a Wave Propagation Model -- computation -- *Friedlander*
7:200 Downward Continuation of Operators -- migration multiple -- *Friedlander*
7:209 Plot Programs -- computation -- *Aral*
7:216 Plot Programs -- computation -- *Khanna*

8:1 Migration in Media with Strong Lateral Velocity Variation -- *Claerbout*
8:8 Anisotropy Dispersion and Wave Migration Accuracy -- *Claerbout*
8:15 Three Dimensional Wave Migration -- *Claerbout*
8:17 Slanted Waves in Slanted Frames -- *Claerbout*
8:38 Expansion About Dipping Waves -- slant -- *Claerbout*
8:48 Well Posedness of One Way Wave Equations -- migration -- *Engquist*
8:62 Frequency Dispersion and Wave Migration Accuracy -- *Claerbout*
8:70 The Effect of Discrete Delta X on Wave Migration Accuracy -- *Lynn*
8:96 Difference Approximation of Waves in Slanted Frames -- *Engquist*

8:122 Some Practical Aspects of Slant Wave Stacks -- *Schultz*
8:149 Some Numerical Aspects of Stacking -- slant -- *Engquist*
8:16 A Brief Derivation of the Dix Theorem -- velocity -- *Claerbout*
8:169 Migration and RMS Velocity -- *Claerbout*
8:173 Velocity Independent Downward Continuation -- migration -- *Claerbout*
8:180 Slant Plane Wave Interpretation Coordinates -- *Schultz*
8:187 Velocity Estimation in Slant Frames I -- *Schultz*
8:202 Shot Waveform Estimation -- multiples -- *Estevez*
8:222 One Dimensional Examples of Slant Synthetics -- multiples -- *Estevez*

9:0 Velocity Estimation By Wave Front Synthesis -- thesis slant field data -- *Schultz*
9:1 Problems Solvable with Wave Stacks -- slant -- *Schultz*
9:7 Coordinate Systems and Data Displays -- slant field data -- *Schultz*
9:43 Velocity Estimation in a Nearly Stratified Earth -- slant field data -- *Schultz*
9:71 Velocity Estimation for Diffracting Earth Models -- slant -- *Schultz*
9:95 End Effects and Aliasing -- slant -- *Schultz*

10:1 Migration with Short Computer Word Length -- computation -- *Engquist*
10:10 Absorptive Side Boundaries for Migration -- computation -- *Claerbout*
10:16 Programming Absorptive Side Boundaries for Migration -- computation -- *Clayton*
10:30 Absorbing Boundary Conditions for Wave Equations -- migration -- *Engquist*
10:50 Refined Source Waveform Estimation -- deconvolution -- *Claerbout*
10:55 Preliminary Results on Refined Source Waveform Estimation -- deconvolution -- *Estevez*
10:69 A Note on Waveform Estimation -- *Canales*
10:73 Source Waveform Ambiguity with Surface Reflection Coefficient -- deconvolution -- *Claerbout*
10:76 Non Gaussian Signal Analysis -- time series -- *Claerbout*
10:84 Exponential Tilt Invariant Solution of Overdetermined Convolution Equ/-- time series -- *Claerbout*
10:90 LEVITY: Levinson Recursion Reprogrammed -- time series computation -- *Claerbout*
10:99 A Quantile Finding Program -- computation non Gaussian -- *Canales*
10:101 Probability and Entropy of Seismic Data -- time series non Gaussian -- *Claerbout*
10:109 IIB: Inverse Incomplete Beta Function of One Half -- time series non Gaussian computation -- *Claerbout*
10:114 Mixed L1 and L2 Norm Problems -- non Gaussian -- *Canales*
10:125 One Way Elastic Wave Equations -- *Engquist*
10:141 Difference Approximations of One Way Waves -- elastic -- *Engquist* and *Clayton*
10:165 A Paraxial Equation for Elastic Waves -- *Claerbout* and *Clayton*

11:3 Migration with Fourier Transforms -- *Claerbout*
11:6 Solution -- *Lynn*
11:9 Implementing f k Migration and Diffraction -- *Lynn*
11:29 Migration Examples Using Fourier Transforms -- *DaPrat* and *Lynn*
11:41 How to Measure rms Velocity with a Pencil and a Straightedge -- *Claerbout*

11:45 Lateral Velocity Estimation from Unstacked Data -- *Lynn*
11:61 Concurrent Migration and Velocity Estimation in a Random, Non Gaussia/-- *Mehta*
11:77 Predicting Multiple Reflection Arrivals on Slant Stacks -- *Estevez*
11:85 Improving the Accuracy of Difference Approximations to the Migration /-- *Brown*
11:103 Inhomogeneous Boundary Conditions for Wave Equations -- migration -- *Brown*
11:111 The Stability of Absorbing Side Boundaries -- migration -- *Claerbout* and *Clayton*
11:116 Absorbing Boundary Conditions -- migration -- *Clayton* and *Engquist*
11:133 A Look at Direct Arrivals -- *Estevez* and *Fulp*
11:147 Relating the Direct Arrival to the Shot Waveform -- *Fulp*
11:157 Slant Stacks and Intervals of Optimum Stacking -- *Estevez*
11:167 Weighted *Burg*-Levinson Recursion with Noise -- time series -- *Claerbout*
11:173 Refracted Body Wave Amplitudes -- *Clayton*
11:189 Dispersion Relations for Elastic Waves -- *Clayton* and *Claerbout*
11:195 Overthrust Imaging Coordinates -- migration -- *Claerbout*
11:199 Radiative Equilibrium in Acoustic Layered Media -- time series -- *Claerbout*
11:205 Equalizing Gain on Seismic Sections by Quantiles -- *Mehta*
11:211 How to Transpose a Big Matrix -- computation -- *Claerbout*
11:213 Autoregressive Modeling and Spectral Estimation for Spatial Data: Som/-- time series -- *Tjos*
11:237 The Switch to a Minicomputer -- computer -- Claerbout
11:243 Outline Index -- *Claerbout*

12:0 Wide Angle Diffracted Multiple Reflections -- thesis slant field data deconvolution source waveform -- *Estevez*
12:8 A Ray Approximation Theory for Multiple Modeling and Suppression -- *Estevez*
12:30 The Wave Equation Approach to Multiples Modeling and Suppression -- *Estevez*
12:49 Wave Stacks -- slant field data -- *Estevez*
12:72 Source Waveform Estimation -- deconvolution slant field data -- *Estevez*

13:1 Parsimonious Deconvolution -- time series non Gaussian -- *Claerbout*
13:10 Examples of Parsimonious Deconvolution -- time series non Gaussian -- *Claerbout*
13:33 Approximation Schemes for 15 Degree Equations with Variable Velocity -- migration -- *Brown*

13:41 One Way Wave Equations by Factorization into Pseudo Differential Oper/-- migrati
13:47 Bright Spots -- modeling -- *Snyder*
13:69 Velocity Estimation from a Single Reflector -- *Gray*
13:84 Variable Velocity Anti Aliasing Window for Slant Stacking -- *Gray*
13:90 Difference Approximations for Forward Modeling Problems -- migration -- *Brown* and *Clayton*
13:109 Variable Velocity: Wave Extrapolation and Reflection -- *Engquist*
13:117 Figure Corrections to "Autoregressive Modeling and Spectral Estimatio/-- time series -- *Tjostheim*
13:121 Installing an Array Processor: A Progress Report -- computer -- *Newkirk*

14:1 Seismic Imaging Concepts -- migration double square root -- *Claerbout*
14:5 Seismic Imaging Principles -- migration double square root -- *Lynn*
14:13 Straightedge Determination of Interval Velocity -- *Claerbout*
14:17 Dip Correction of Velocity Estimates -- *Claerbout* and *Clayton*
14:21 Common Midpoint Migration -- double square root -- *Clayton*
14:37 Frequency Domain Implementation of Slant Midpoint Imaging -- computation -- *Ottolini*
14:59 Migration in Slant Midpoint Coordinates -- double square root -- *Claerbout*
14:65 Downward Continuing Constant Offset Sections a Paradox and Four Guess/-- *Claerbout*
14:73 Retarded Slant Midpoint Coordinates -- *Claerbout* and *Lynn*
14:81 Reconstruction of a Wavefield from Slant Stacks -- *Thorson*
14:87 Migrated Time and Migrated Depth Sections -- *Lynn*
14:95 RMS Velocity Estimation in Laterally Varying Media -- *Lynn*
14:119 A Discussion of Variable Velocity and Faulty Ray Tracing Effects of O/-- migration -- *Brown*
14:131 One Way Wave Equations for Variable Velocity Media -- migration computation -- *Brown*
14:135 Phase Error Plots for Forward Modeling Schemes -- migration -- *Brown* and *Clayton*

15:1 Modeling and Migration with the Monochromatic Wave Equation Variable /-- computation -- *Kjar*
15:21 *Steeply Faulted Regions, Artifacts, and Stability in the 45 Degree Om/-- Finite Difference Algorithm -- field data -*
15:39 *A Stable Lateral Velocity Estimation Scheme -- Lynn*
15:57 Snell Waves -- slant -- *Claerbout*
15:73 The Double Square Root Equation -- migration -- *Claerbout*
15:81 Short Review of Retarded Snell Midpoint Coordinates -- slant -- *Claerbout*
15:89 Slant Stack Migration and Velocity Analysis: Equations for Programs -- double square root -- *Claerbout*
15:97 Migration of Slant Midpoint Stacks: Field Data Example -- *Ottolini*
15:109 Minimum Information Deconvolution -- time series non Gaussian -- *Claerbout*
15:123 A Theory for Variable Norm Deconvolution -- time series non Gaussian -- *Gray*
15:157 An Information Theory Approach to Deconvolution -- time series non Gaussian -- *Godfrey*
15:183 Variable Norm Exponential Gain Estimation -- time series non Gaussian -- *Gray*
15:191 Wave Equation Deconvolved Time Sections -- time series field data -- *Morley* and *Claerbout*
15:203 Causal Positive Real Operators -- attenuation -- *Brown*
15:214 Splitting and Separation of Differential Equations with Applications /
15:233 An Exact Factorization of the Elastic Wave Equation -- *Clayton* and *Claerbout*
15:247 Two Dimensional Fourier Transforms without Transposing -- computation -- *Clayton*
15:251 Applications and Comparisons of the Frequency Domain and the Finite D/-- field data --
15:273 *Subjective Comparison of Migration Methods -- Dut*
15:275 A Complex Tridiagonal Matrix Solver -- computation migration -- *Thorson*
15:283 An Array Processor Progress Report -- computer -- *Ottolini* and *Newkirk*

16:5 Common midpoint Separations of the Double Square Root Equation -- prestack migration -- *Claerbout* and *Yilmaz*
16:13 Implementation of the Deviation Operator -- double square root prestack migration -- *Yilmaz* and *Claerbout*
16:25 Geometric Optics and Wave Theory of Constant Offset Sections in Layer/-- double square root migration -- *Der*
16:57 *Extrapolation Off the Sides of a Common Midpoint Gather -- migration -- Claerbout* and *Yilmaz*
16:59 Common Shot Gather Modeling and Inversion -- migration -- *Snyder*
16:83 Stable Extrapolation -- migration -- *Godfrey Muir* and *Claerbout*
16:89 Bullet Proofing the Code for the 45 degree Equation -- migration -- *Jacobs Godfrey Muir* et al
16:97 A Program for Stable Migration -- computation -- *Godfrey* and *Jacobs*
16:107 Stability and Variable Velocity Migration: An Update for Programs in /-- computation -- *Kjartansson*
16:109 Numerical Viscosity Considerations for the Monochromatic 45 degree Eq/-- migration -- *Morley*
16:121 The Exploding Reflector Model and Laterally Variable Media -- single square root migration -- *Kjartansson* and
16:131 *Powers of Causal Operators -- attenuation -- Claerbout* and *Kjartansson*
16:141 Impedance, Reflectance and Transference Functions -- migration attenuation -- *Claerbout*
16:155 Empirical Test of *Muir's* Fractional Derivative Representation T/-- computation, migration -- *Morley*
16:165 Reflections Due to Contrasts in attenuation -- migration attenuation -- *Kjartansson*
16:171 Two Types of Migrated Time Sections -- *Lynn*
16:181 Wave Equation Velocity Analysis -- *Gonzalez Serrano*
16:205 A Technique for Computing Interval Velocities from Common Midpoint Ga/-- *Deregowski*
16:227 Velocity Anisotropy -- *Jacobs*
16:233 Simultaneous Noah's Deconvolution of Shot Waveform and Multiple Signa/-- *Morley*
16:245 Modeling Seismic Impedance by Markov Chains -- Model Properties -- time series non Gaussian -- *Godfrey Muir*
16:275 Bussgang Properties -- time series non Gaussian -- *Rocca Godfrey* and *Muir*
16:281 A Scalar Migration Equation for Converted Shear Waves -- *Clayton*
16:289 Downward and Upward Continuing Head Waves -- migration -- *Jacobs*
16:299 Modeling Refraction Arrivals -- *Thorson*

16:310 Improved Migrations in Laterally Varying Media, Wind River Wyoming -- field data -- *Bloxsom Gagnon Seebu*
16:353 Dispersion Relation Derivation of Wave Extrapolators -- A Review -- tutorial migration -- Claerbout
16:361 Sign Convention in Fourier Transform -- tutorial -- *Claerbout*

17:0 A Stochastic Model for Seismogram Analysis -- thesis time series non Gaussian -- *Godfrey*
17:1 Modeling Seismic Impedance with Markov Chains -- time series non Gaussian -- *Godfrey*
17:26 A Theory for Iterative Source Waveform Deconvolution -- time series -- *Godfrey*
17:57 Well Log Deglitching and Seismogram Inversion -- time series -- *Godfrey*
17:74 The Minimum Mean Square Error Estimator -- time series -- *Godfrey*
17:76 Properties of the Conditional Mean -- time series -- *Godfrey*
17:79 Penalty Function Factorization -- time series -- *Godfrey*
17:82 Bussgang Theorems -- time series -- *Godfrey*

18:0 Prestack Partial Migration -- thesis field data -- *Yilmaz*
18:1 The Double Square Root Equation and Related Operators -- migration -- *Yilmaz*
18:29 The Deviation Operator -- double square root prestack migration field data -- *Yilmaz*
18:77 Lateral Velocity Variation -- double square root migration -- *Yilmaz*
18:88 Three Dimensional Double Square Root Equation and Related Operators -- double square root migration -- *Yilmaz*
18:105 Second Order Square Root Expansions -- double square root migration -- *Yilmaz*
18:109 Stationary Phase Approximations -- migration -- *Yilmaz*

19:0 Variable Norm Deconvolution -- thesis time series non Gaussian -- *Gray*
19:6 Current Deconvolution Methods -- time series non Gaussian tutorial -- *Gray*
19:10 Spikiness -- time series non Gaussian -- *Gray*
19:13 A Family of Distributions Describing Seismic Data -- non Gaussian -- *Gray*
19:33 Properties of the Variable Norm Ratio -- time series non Gaussian -- *Gray*
19:43 Wiggins Type Algorithm -- time series non Gaussian -- *Gray*
19:60 Newton Type Algorithm -- time series non Gaussian -- *Gray*

20:1 Analysis of Variations in Amplitudes and Traveltimes with Offset and /-- inversion -- *Kjartansson*
20:25 Direct Observation of a p tau Curve in a Slant Stacked Wavefield -- *McMechan* and *Ottolini*
20:49 Velocity Analysis: Problems with Snell Waves -- slant -- *Gonzalez Serrano*
20:57 Wave Equation Multiple Suppression: Correspondence with Time Series -- *Claerbout*
20:63 Computing Love Waves in Laterally Varying by Wave Extrapolation -- elastic -- *Clayton* and *Brown*
20:73 The Choice of Variables for Elastic Wave Extrapolation -- *Clayton* and *Brown*
20:97 Migration of Radial Trace Sections -- double square root -- *Ottolini*
20:117 Changing the Snell Parameter of Slant Stacks -- *Ottolini*
20:121 Step Size in Optimization Problems -- computation -- *Claerbout*
20:125 *Muir*'s Rules for Matrices: Another Look at Stability -- attenuation -- *Brown*
20:143 Gaussian Elimination on a Banded Matrix -- computation -- *Thorson*
20:155 A Square Root Recurrence for Causal Branch Cut Functions -- attenuation -- *Claerbout*
20:165 Stability Conditions on Absorbing Boundaries -- migration -- *Thorson*
20:179 Introduction to Wavefield Extrapolation -- tutorial migration -- *Claerbout*

20:191 Symmetry -- So What? -- tutorial migration -- *Stolt*
20:197 One More Time -- migration -- *Stolt*
20:201 The Double Square Root Equation in Midpoint Offset Coordinates -- migration -- *Clayton*
20:207 Anisotropy Dispersion and Wave Migration Accuracy -- *Claerbout*
20:221 The Purification of Binary Mixtures -- non Gaussian -- *Claerbout*
20:229 Simplicity: i) Purification of Binary Mixtures -- non Gaussian -- *Gonzalez Serrano*
20:235 Recursive Dip Filters -- *Claerbout* and *Hale*
20:243 Roots of Seismic Z Transforms -- time series deconvolution -- *Jacobs*
20:257 Fundamentals of Geophysical Data Processing -- Errata

21:0 Velocity Estimation in Laterally Varying Media -- thesis field data -- *Lynn*
21:6 Derivation and Implementation of the Lateral Derivative Velocity Esti/-- *Lynn*
21:25 Applications of the Lateral Derivative Method -- field data lateral velocity estimation -- *Lynn*
21:51 Wave Theory Derivation of the Lateral Velocity Equations -- *Lynn*
21:78 Subroutine for Solving Pentadiagonal Systems of Equations -- *Lynn*

22:0 Migration and Interpretation of Deep Crustal Seismic Reflection Data -- thesis field data -- *Bloxsom*
22:1 Dip Limitations on Migrated Sections as Imposed by Recording Geometry/-- *Bloxsom*
22:17 Geologic Interpretation of Migrated COCORP Hardeman County Texas -- *Bloxsom*
22:77 Depth Migration and Interpretation of the COCORP Wind River Wyoming -- *Bloxsom*

23:0 Attenuation of Seismic Waves in Rocks and Applications in Energy Expl/-- thesis *Kjartansson*
23:5 Constant Q -- wave propagation attenuation -- *Kjartansson*
23:41 Models for Frequency Dependent Q -- attenuation -- *Kjartansson*
23:51 Reflections Due to Contrast in Q -- attenuation -- *Kjartansson*
23:55 Attenuation Due to Thermal Relaxation in Porous Rocks -- *Kjartansson*
23:89 Finite Difference Modeling and Migration in Media with Laterally Vari/-- *Kjartansson*
23:109 Analysis of Variations in Amplitudes and Traveltimes with Offset and /-- *Kjartansson*

23:133 Viscoelastic Models -- *Kjartansson*

24:1 Wide Angle Variable Velocity One Way Wave Equation Modeling -- migration -- *Jacobs*
24:5 Synthetic Examples of Pre Stack Migration -- double square root -- *Thorson*
24:33 Inversion of Refraction Data by Wave Field Migration -- slant double square root -- *Clayton* and *McMechan*
24:57 An Inversion Method for Acoustic Wave Fields -- *Clayton* and *Stolt*
24:81 An Inversion Method for Elastic Wave Fields -- *Clayton*
24:93 F K Migration of Multi Offset Vertical Seismic Profiles -- *Clayton* and *Yedlin*
24:103 Gilding the Born Approximation -- inversion -- *Stolt*
24:109 Seismic Inversion in a Layered Medium -- the Gelfand Levitan Algorithm -- *Stolt* and *Jacobs*
24:135 Inversion of Seismic Data in a Laterally Heterogeneous Medium -- *Stolt* and *Jacobs*
24:153 A Program for Inversion by T matrix Iteration -- computation -- *Jacobs*
24:157 Seven Essays on Minimum Entropy -- time series non Gaussian -- *Claerbout*
24:189 Minimum Entropy Deconvolution -- time series non Gaussian -- *Morley*
24:199 Minimum Entropy Decision Analysis -- non Gaussian -- *Gonzalez Serrano*
24:227 Some Basic Stuff about Linear Operators and Vector Spaces -- tutorial -- *Stolt*

24:251 Fourier Transforms of Functions with Asymptotes -- computation -- *Stolt*
24:255 A Poor Man's Guide to Point Sources in Two Dimensions -- migration -- *Stolt* and *Clayton*
24:262 Table of Contents -- tutorial -- *Claerbout*
24:265 Finite Differencing -- tutorial migration -- *Claerbout*
24:273 Introduction to Stability -- tutorial migration -- *Claerbout*
24:278 Dispersion Relation Derivation of Wave Extrapolators -- tutorial migration -- *Claerbout*
24:287 Difficulty of Higher Dimensions -- tutorial migration -- *Claerbout*
24:290 Splitting and Full Separation -- tutorial migration -- *Claerbout*
24:299 Frequency Dispersion and Wave Migration Accuracy -- tutorial migration -- *Claerbout*
24:310 Impedance and Wave Field Extrapolators -- tutorial migration -- *Claerbout*
24:331 Snell Waves and Multiple Reflections -- tutorial slant -- *Claerbout*
24:343 Time Series and One Dimensional Multiple Reflection -- tutorial -- *Claerbout*
24:349 Slanted Ray Multiple Reflections -- tutorial -- *Claerbout*
24:360 Wave Equations for Snell Wave Multiples -- tutorial slant -- *Claerbout*

25:1 Restoration of Missing Data by Least Squares Optimization -- *Claerbout*
25:17 Extrapolation, Interpolation, and Smoothing of Wave Fields -- missing data -- *Claerbout*
25:23 Data Restoration with Parsimonious Models -- missing data time series non Gaussian -- *Claerbout*
25:27 Spatial Interpolation of Steep Dips -- missing data -- *Hale*
25:39 Resampling Irregularly Sampled Data -- missing data -- *Hale*
25:59 Stable Extrapolation of Scalar Wavefields -- migration -- *Clayton* and *Yedlin*
25:63 Wave Equation Stacking -- double square root migration migration velocity -- *Ottolini*
25:69 Wave Equation Moveout -- migration velocity -- *Thorson* and *Yedlin*
25:81 Examples of Wide Angle Wave Equation Modeling -- migration -- *Jacobs*
25:87 Suppression of Hard Bottom Marine Multiples with the Wave Equation -- *Morley*
25:101 Analysis of Dispersive Waves by Wave Field Transformation -- slant -- *McMechan* and *Yedlin*
25:115 Inversion of Refracted Free Surface Multiples by Wavefield Continuati/-- slant -- *Clayton* and *McMechan*
25:121 An Approach to the Inversion Seismic Problem -- *Stolt* and *Jacobs*
25:135 A Born WKBJ Inversion Method for Acoustic Reflection Data -- *Clayton* and *Stolt*
25:159 Uniform Asymptotic Representation of the Green's Function for the Two/-- inversion --
25:167 A WKBJ Inverse for the Acoustic Wave Equation in a Layered Medium -- Stolt
25:175 Inversion in an Inhomogeneous Medium -- *Stolt*
25:191 Exploding Reflectors -- migration tutorial -- *Claerbout*
25:203 Wave Extrapolation as a Two Dimensional Filter -- migration tutorial -- *Claerbout*
25:209 Four Wide Angle Migration Methods -- tutorial -- *Claerbout*
25:221 The Physical Basis -- tutorial migration -- *Claerbout*
25:231 The Single Square Root Equation -- tutorial migration -- *Claerbout*
25:239 Mastery of Two Dimensional Fourier Techniques -- tutorial computation -- *Claerbout*
25:245 Why Use Finite Differencing? -- tutorial migration -- *Claerbout*
25:251 Retarded Coordinates -- tutorial migration -- *Claerbout*
25:257 Finite Differencing in (t,x,z) space -- tutorial migration -- *Claerbout*
25:265 Migration, Dependence on Velocity -- tutorial -- *Claerbout*
25:271 Physical and Cosmetic Aspects of the 45 Degree Equation -- tutorial computation -- *Claerbout*
25:277 Absorbing Sides -- tutorial migration -- *Claerbout*
25:285 Offset, Another Dimension -- tutorial migration -- *Claerbout*
25:289 Cheop's Pyramid -- tutorial migration -- *Claerbout*
25:299 Derivation of the Double Square Root Equation -- tutorial migration -- *Claerbout*
25:307 The Meaning of the Double Square Root Equation -- tutorial migration -- *Claerbout*
25:317 Stacking and Velocity Analysis -- tutorial -- *Claerbout*
25:333 Dip and Offset Together -- double square root slant tutorial migration -- *Claerbout*
25:349 The Up Down Imaging Concept -- tutorial migration -- *Claerbout*
25:353 Shallow Multiples -- tutorial -- *Claerbout*
25:363 Reflection Seismology Literature in China -- translation -- *Ottolini*

26:00 Restoration of Missing Data by Parsimony in the Frequency Domain -- *Thorson*

26:00 Missing Data: Wanted, Good Convergence in a Few Steps -- *Claerbout*
26:00 Program for One Dimensional Missing Data Studies -- *Claerbout*
26:00 Interpolating Aliased Seismic Sections -- missing data -- *Jacobs*
26:00 Missing Data in Midpoint Space: An Intuitive Approach -- *Claerbout*
26:00 Brief Notes on the Detection of Frequency Dispersion -- *Claerbout*
26:00 Display Gain -- *Claerbout*
26:00 Geometrical Interpretation of the Double Square Root Equation -- *Yedlin*
26:00 Downward Continuation of Common Midpoint Gathers by Transformation in/-- *Ottolini*
26:00 Split Backus Deconvolution Operators -- *Morley*
26:00 Wave Equation Moveout Part II -- *Yedlin* and *Thorson*
26:00 The Smile Equation for Velocity Estimation -- *Jacobs*
26:00 Wave Equation Normal Moveout Using a Stolt Algorithm -- *Ottolini*
26:00 Analysis of Focusing in Retarded Snell Coordinates -- *Gonzales Serrano Yedlin*
26:00 Deformations of CDP Gathers with V(z) to Hyperbolas -- *Gonzalez Serrano Claerbout*
26:00 Half Plane Space Time Prediction Filters -- *Morley* and *Muir*
26:00 High Order Migration Operators for Laterally Homogeneous Media -- *Jacobs* and *Muir*
26:00 Convergence Properties of the Square Root's Continued Fraction -- *Jacobs* and *Muir*
26:00 Non existence of a Gelfand Levitan Coordinate System for the Wave Equ/
26:00 Effect of Reflection Coefficients on Synthetic Seismograms: Theory -- *Bourbie Gonzalez Serrano*
26:00 Effect of Reflection Coefficients on Synthetic Seismograms: Results -- *Bourbie Gonzalez Serrano*
26:00 An Inverse-Q Filter -- attenuation deconvolution -- *Hale*
26:00 Application of Inverse Q Filtering -- attenuation deconvolution -- *Hale*
26:00 Application of Wavefield Continuation to the Inversion of Refraction /-- *McMechan Clayton Mooney*
26:00 A Program For Downward Continuation of Slant Stacks -- *Clayton*
26:00 Controlled Directional Receptivity: A Russian Method of Pre Stack Mig/-- translation slant -- *Sword*
26:00 Forward to the SEP Indexes -- *Ottolini*
26:00 Cumulative Permutated Index of Contents to SEP Report Volumes 1 to 27/-- *Ottolini*
26:00 Cumulative Permutated Index of Authors in SEP Report Volumes 1 to 27 -- *Ottolini*
26:00 Chronological Cumulative Contents to SEP Report Volumes 1 to 27 -- index -- *Ottolini*

27:0 Wavefield Inversion Methods for Refraction and Reflection Data -- thesis elastic born variables -- *Clayton*
27:1 Inversion Of Refracted Data By Wavefield Continuation -- *Clayton*
27:23 Examples Of Inversion Of Refraction Data By Wavefield Continuation -- field data -- *Clayton*
27:35 A Born-WKBJ Inversion Method For Acoustic Reflection Data -- *Clayton*
27:57 A Born Inversion Method For Elastic Wave Fields -- *Clayton*
27:67 Stable and Accurate Extrapolation Operators In An Acoustic Medium -- *Clayton*
27:81 On The Choice Of Variables For The Extrapolation Of Elastic Waves -- *Clayton*