Contents

Preface, ix

- 1 The principles and limitations of geophysical exploration methods, 1
- 1.1 Introduction, 1
- 1.2 The survey methods, 1
- 1.3 The problem of ambiguity in geophysical interpretation, 6
- 1.4 The structure of the book, 7

2 Geophysical data processing, 8

- 2.1 Introduction, 8
- 2.2 Digitization of geophysical data, 8
- 2.3 Spectral analysis, 10
- 2.4 Waveform processing, 13
 - 2.4.1 Convolution, 13
 - 2.4.2 Deconvolution, 16
 - 2.4.3 Correlation, 16
- 2.5 Digital filtering, 17
 - 2.5.1 Frequency filters, 18
 - 2.5.2 Inverse (deconvolution) filters, 19
- 2.6 Imaging and modelling, 19 Problems, 20
 - Further reading, 20

3 Elements of seismic surveying, 21

- 3.1 Introduction, 21
- 3.2 Stress and strain, 21
- 3.3 Seismic waves, 22
 - 3.3.1 Body waves, 23
 - 3.3.2 Surface waves, 24
 - 3.3.3 Waves and rays, 25
- 3.4 Seismic wave velocities of rocks, 26
- Attenuation of seismic energy along ray paths, 27
- 3.6 Ray paths in layered media, 28
 - 3.6.1 Reflection and transmission of normally incident seismic rays, 28

- 3.6.2 Reflection and refraction of obliquely incident rays, 30
- 3.6.3 Critical refraction, 31
- 3.6.4 Diffraction, 31
- 3.7 Reflection and refraction surveying, 32
- 3.8 Seismic data acquisition systems, 33
 - 3.8.1 Seismic sources and the seismic/ acoustic spectrum, 34
 - 3.8.2 Seismic transducers, 39
 - 3.8.3 Seismic recording systems, 41 Problems, 42
 - Fioblenis, 42
 - Further reading, 42

4 Seismic reflection surveying, 43

- 4.1 Introduction, 43
- 4.2 Geometry of reflected ray paths, 43
 - 4.2.1 Single horizontal reflector, 43
 - 4.2.2 Sequence of horizontal reflectors, 45
 - 4.2.3 Dipping reflector, 46
 - 4.2.4 Ray paths of multiple reflections, 47
- 4.3 The reflection seismogram, 48
 - 4.3.1 The seismic trace, 48
 - 4.3.2 The shot gather, 49
 - 4.3.3 The CMP gather, 50
- 4.4 Multichannel reflection survey design, 51
 - 4.4.1 Vertical and horizontal resolution, 52
 - 4.4.2 Design of detector arrays, 53
 - 4.4.3 Common mid-point (CMP) surveying, 54
 - 4.4.4 Display of seismic reflection data, 57
- 4.5 Time corrections applied to seismic traces, 57
- 4.6 Static correction, 57
- 4.7 Velocity analysis, 59
- 4.8 Filtering of seismic data, 61
 - 4.8.1 Frequency filtering, 62
 - 4.8.2 Inverse filtering (deconvolution), 62
 - 4.8.3 Velocity filtering, 65
- 4.9 Migration of reflection data, 67
- 4.10 3D seismic reflection surveys, 72

vi Contents

- Three component (3C) seismic reflection surveys, 76
- 4.12 4D seismic reflection surveys, 77
- 4.13 Vertical seismic profiling, 79
- 4.14 Interpretation of seismic reflection data, 80
 - 4.14.1 Structural analysis, 81
 - 4.14.2 Stratigraphical analysis
 - (seismic stratigraphy), 82
 - 4.14.3 Seismic modelling, 84
 - 4.14.4 Seismic attribute analysis, 85
- 4.15 Single-channel marine reflection profiling, 86
 - 4.15.1 Shallow marine seismic sources, 89
 - 4.15.2 Sidescan sonar systems, 90
- 4.16 Applications of seismic reflection surveying, 92 Problems, 97
 - Further reading, 98

5 Seismic refraction surveying, 99

- 5.1 Introduction, 99
- 5.2 Geometry of refracted ray paths: planar interfaces, 99
 - 5.2.1 Two-layer case with horizontal interface, 100
 - 5.2.2 Three-layer case with horizontal interface, 101
 - 5.2.3 Multilayer case with horizontal interfaces, 102
 - 5.2.4 Dipping-layer case with planar interfaces, 102
 - 5.2.5 Faulted planar interfaces, 104
- 5.3 Profile geometries for studying planar layer problems, 105
- 5.4 Geometry of refracted ray paths: irregular (non-planar) interfaces, 106
 - 5.4.1 Delay time, 106
 - 5.4.2 The plus-minus interpretation method, 108
 - 5.4.3 The generalized reciprocal method, 109
- 5.5 Construction of wavefronts and ray-tracing, 110
- 5.6 The hidden and blind layer problems, 110
- 5.7 Refraction in layers of continuous velocity change, 112
- 5.8 Methodology of refraction profiling, 112
 - 5.8.1 Field survey arrangements, 112
 - 5.8.2 Recording scheme, 113
 - 5.8.3 Weathering and elevation corrections, 114
 - 5.8.4 Display of refraction seismograms, 115
 - 5.9 Other methods of refraction surveying, 115
- 5.10 Seismic tomography, 117

- 5.11 Applications of seismic refraction surveying, 119
 - 5.11.1 Engineering and environmental surveys, 119
 - 5.11.2 Hydrological surveys, 120
 - 5.11.3 Crustal seismology, 120
 - 5.11.4 Two-ship seismic surveying: combined refraction and reflection surveying, 122
 - Problems, 123
 - Further reading, 124

6 Gravity surveying, 125

- 6.1 Introduction, 125
- 6.2 Basic theory, 125
- 6.3 Units of gravity, 126
- 6.4 Measurement of gravity, 126
- 6.5 Gravity anomalies, 129
- 6.6 Gravity anomalies of simple-shaped bodies, 130
- 6.7 Gravity surveying, 132
- 6.8 Gravity reduction, 133
 - 6.8.1 Drift correction, 133
 - 6.8.2 Latitude correction, 133
 - 6.8.3 Elevation corrections, 134
 - 6.8.4 Tidal correction, 136
 - 6.8.5 Eötvös correction, 136
 - 6.8.6 Free-air and Bouguer anomalies, 136
- 6.9 Rock densities, 137
- 6.10 Interpretation of gravity anomalies, 139
 - 6.10.1 The inverse problem, 139
 - 6.10.2 Regional fields and residual anomalies, 139
 - 6.10.3 Direct interpretation, 140
 - 6.10.4 Indirect interpretation, 142
- 6.11 Elementary potential theory and potential field manipulation, 144
- 6.12 Applications of gravity surveying, 147 Problems, 150 Further reading, 153

7 Magnetic surveying, 155

- 7.1 Introduction, 155
- 7.2 Basic concepts, 155
- 7.3 Rock magnetism, 158
- 7.4 The geomagnetic field, 159
- 7.5 Magnetic anomalies, 160
- 7.6 Magnetic surveying instruments, 162
 - 7.6.1 Introduction, 162
 - 7.6.2 Fluxgate magnetometer, 162
 - 7.6.3 Proton magnetometer, 163
 - 7.6.4 Optically pumped magnetometer, 164
 - 7.6.5 Magnetic gradiometers, 164

- 7.7 Ground magnetic surveys, 164
- 7.8 Aeromagnetic and marine surveys, 164
- 7.9 Reduction of magnetic observations, 165
 - 7.9.1 Diurnal variation correction, 165
 - 7.9.2 Geomagnetic correction, 166
 - 7.9.3 Elevation and terrain corrections, 166
- 7.10 Interpretation of magnetic anomalies, 166 7.10.1 Introduction, 166
 - 7.10.2 Direct interpretation, 168
 - 7.10.3 Indirect interpretation, 170
- 7.11 Potential field transformations, 172
- 7.12 Applications of magnetic surveying, 173 Problems, 180 Further reading, 181

8 Electrical surveying, 183

- 8.1 Introduction, 183
- 8.2 Resistivity method, 183
 - 8.2.1 Introduction, 183
 - 8.2.2 Resistivities of rocks and minerals, 183
 - 8.2.3 Current flow in the ground, 184
 - 8.2.4 Electrode spreads, 186
 - 8.2.5 Resistivity surveying equipment, 186
 - 8.2.6 Interpretation of resistivity data, 187
 - 8.2.7 Vertical electrical sounding interpretation, 188
 - 8.2.8 Constant separation traversing interpretation, 193
 - 8.2.9 Limitations of the resistivity method, 196
 - 8.2.10 Applications of resistivity surveying, 196
- 8.3 Induced polarization (IP) method, 199
 - 8.3.1 Principles, 199
 - 8.3.2 Mechanisms of induced polarization, 199
 - 8.3.3 Induced polarization measurements, 200
 - 8.3.4 Field operations, 201
 - 8.3.5 Interpretation of induced polarization data, 201
 - 8.3.6 Applications of induced polarization surveying, 202
- 8.4 Self-potential (SP) method, 203
 - 8.4.1 Introduction, 203
 - 8.4.2 Mechanism of self-potential, 203
 - 8.4.3 Self-potential equipment and survey procedure, 203
 - 8.4.4 Interpretation of self-potential anomalies, 204

Problems, 205

Further reading, 207

9 Electromagnetic surveying, 208

- 9.1 Introduction, 208
- 9.2 Depth of penetration of electromagnetic fields, 208
- 9.3 Detection of electromagnetic fields, 209
- 9.4 Tilt-angle methods, 209
 - 9.4.1 Tilt-angle methods employing local transmitters, 210
 - 9.4.2 The VLF method, 210
 - 9.4.3 The AFMAG method, 212
- 9.5 Phase measuring systems, 212
- 9.6 Time-domain electromagnetic surveying, 214
- 9.7 Non-contacting conductivity measurement, 216
- 9.8 Airborne electromagnetic surveying, 218
 - 9.8.1 Fixed separation systems, 2189.8.2 Quadrature systems, 220
- 9.9 Interpretation of electromagnetic data, 221
- 9.10 Limitations of the electromagnetic method, 221
- 9.11 Telluric and magnetotelluric field methods, 221
 - 9.11.1 Introduction, 221
 - 9.11.2 Surveying with telluric currents, 222
 - 9.11.3 Magnetotelluric surveying, 224
- 9.12 Ground-penetrating radar, 225
- 9.13 Applications of electromagnetic surveying, 227 Problems, 228 Further reading, 230

10 Radiometric surveying, 231

- 10.1 Introduction, 231
- 10.2 Radioactive decay, 231
- 10.3 Radioactive minerals, 232
- 10.4 Instruments for measuring radioactivity, 233
 - 10.4.1 Geiger counter, 233
 - 10.4.2 Scintillation counter, 233
 - 10.4.3 Gamma-ray spectrometer, 233
 - 10.4.4 Radon emanometer, 234
- 10.5 Field surveys, 235
- 10.6 Example of radiometric surveying, 235 Further reading, 235

11 Geophysical borehole logging, 236

- 11.1 Introduction to drilling, 236
- 11.2 Principles of well logging, 236
- 11.3 Formation evaluation, 237
- 11.4 Resistivity logging, 237
 - 11.4.1 Normallog, 238
 - 11.4.2 Lateral log, 239
 - 11.4.3 Laterolog, 240
 - 11.4.4 Microlog, 241
 - 11.4.5 Porosity estimation, 241

viii Contents

11.4.6 Water and hydrocarbon saturation estimation, 241
11.4.7 Permeability estimation, 242
11.4.8 Resistivity dipmeter log, 242
11.5 Induction logging, 243
11.6 Self-potential logging, 243
11.7 Radiometric logging, 244
11.7.1 Natural gamma radiation log, 244
11.7.2 Gamma-ray density log, 244
11.7.3 Neutron-gamma-ray log, 245
11.8 Sonic logging, 246
11.9 Temperature logging, 247
11.10 Magnetic logging, 247

11.10.1 Magnetic log, 247
11.10.2 Nuclear magnetic resonance log, 247
11.11 Gravity logging, 247
Problems, 248
Further reading, 249

Appendix: SI, c.g.s. and Imperial (customary USA) units and conversion factors, 250

References, 251

Index, 257

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This new edition of a well-established text is fully updated to reflect the important developments in geophysical methods since the production of the previous edition. The broad scope of previous editions is maintained, with even greater clarity of explanations from the revised text and extensively revised figures. Each of the major geophysical methods is treated systematically, developing the theory behind the method and detailing the instrumentation, field data acquisition techniques, data processing and interpretation methods. The practical application of each method to such diverse exploration applications as petroleum, groundwater, engineering, environmental and forensic is shown by case histories.

The mathematics required in order to understand the text is purposely kept to a minimum, so the

book is suitable for courses taken in geophysics by all undergraduate students. It will also be of use to postgraduate students who might wish to include geophysics in their studies and to all professional geologists who wish to discover the breadth of the subject in connection with their own work.

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