

## ***SURVEY REVIEW* CUMULATIVE INDEX**

**Volumes 1-35**

**G-I**

- G.A.K.1 gyro attachment. A modified. R. C. H. Smith. **183**, 3
- Gachari, M. K. and Olliver, J. G.* The detailed gravimetric geoid of Kenya. **221**, 365.
- Gachari, M. K. and Olliver, J. G.* A High Resolution Gravimetric Geoid of the Eastern Africa Region. **269**, 421
- Gadd, D.* A Graphical Method of Selecting Stars for Astronomical Observations. **118**, 377
- Gagnon, P. A., Agnard, J. P. and Nolette, C.* The DVP. A Tool for Extending the Field of the Surveyor's Practice. **249**, 159
- Gale, D'A. T.* Two Voyages to Antarctica with the Australian National Antarctic Research Expeditions, 1961 and 1962. **131**, 221; **132**, 260
- Gar Al-nabi, I. M.* A Three-Dimensional Digital Elevation Data Compression Procedure. **240**, 99
- Gar Al-nabi, I. M.* Optimisation of the Three-Dimensional Digital Elevation Data Compression Procedure. **243**, 248
- Garavito's Method, Latitude by. F. J. Duarté. **44**, 334
- Gardiner, R. A.* The Use of Air Photography by the Ordnance Survey. **76**, 242
- Gardiner, R. A.* A Re-appraisal of the International Map of the World (I. M. W.) on the Millionth Scale. **120**, 54
- Gargiulo, R. and Vassallo, A.* The Spatial Solution of the First Fundamental Geodetic Problem. **268**, 405
- Garnikyan, V. A., Kaptüg, V. B., Sokolov, Yu. G. and Vereshchagin, S. G.* The First Russian Wire-Measured Baseline Investigated. **274**, 251
- Garstin, W. A.* A Note on Hispano-Muslim Astronomy. **86**, 356
- Garstin, W. A.* A Note on Islamic Astronomy. **85**, 306
- Gauss Inverse Problem. Further extension of the. B. R. Bowring. **151**, 40
- Gauss-Krüger (Transverse Mercator ) Projections, Transformations between the Lambert Conformal and. J. T. Fang. **74**, 181
- Gauss-Krüger Form, A Transverse Mercator Projection of the Spheroid Alternative to the. L. P. Lee. **87**, 12
- Gauss-Krüger series. Recursion-formulae for the. J. Danielsen. **224**, 79
- Gavish, D. and Biyer, C.* Innovative cartography in Palestine of 1917-1918. **208**, 81
- Geisler, M.* Precision Tacheometry with the Vertical Subtense Bar Applied to Topographical Surveying. **134**, 374
- GEM 9 potential coefficients and degree gravity anomalies. Geoidal heights for Africa from. G. Obenson. **218**, 207
- General Check for a Triangulation Computation, A. B. Cvetkov. **108**, 278
- General Theory for Horizontal Angle Observations in Astronomy. L. A. White. **141**, 316; **142**, 346
- General Theory for the Adjustment of a Trilateration Network. A. G. J. Thornton-Smith. **130**, 173
- General Theory of the Least Squares Problem. F. Teixeira de Queiroz. **139**, 214
- Generalisation of the hydrostatic model. Further. J. Sneddon. **182**, 362
- Generalized Determinantal Algebra of the Geodetic Linear Adjustment. B. Cvetkov. **102**, 357
- Generalized Formulae for the Astronomical Triangle. Conventions and. L. P. Lee. **94**, 372

Geocentric Cartesian Co-ordinates. Point Projection of Topographic Surface onto the Reference Ellipsoid of Revolution in. N. Crocetto. **250**, 233

Geocentric Reference System in Taiwan. A, C.C. Chang and C. L. Tseng. **273**,195

Geodesic Lengths. A Note on. S. K. Sharma. **140**, 291

Geodesic. The Area under the. J. Danielsen. **232**, 61

Geodesics on the ellipsoid with application of nested equations. Direct and inverse solutions of. T . Vincenty. **176**, 88

Geodesics on the Ellipsoid. The Use of Bessel-Spheres for Solution of Problems Related to. J. S. Danielsen. **253**, 445

Geodesics. A refined chord-arc method of calculating. J. W. R. Day. **226**, 191 .

Geodesist, A Great British: Alexander Ross Clarke. Sir C. F. Arden-Close. **49**, 107

Geodesy Applicable Complex and Unreal. B. R. Bowring. **249**, 145; **250**, 200

Geodesy .Fourth Hotine symposium on mathematical. P. A. Cross. **191**, 45

Geodesy 250 years ago. The beginning of modern. J. R. Smith. **225**, 105

Geodesy and Geophysics at Lisbon. The International Union of: P. K. Boulnois. **11**, 282

Geodesy and Geophysics. 1948. The International Union of. J. De Graaff-Hunter. **72**, 50

Geodesy and Geophysics. The International Union of. Sixth General Assembly. N. G. Huntly. **23**, 54

Geodesy and Geophysics, The Washington Conference of the Union of. J. E. R. Ross. **36**, 345

Geodesy and Geophysics. The XIth General Assembly of the International Union of. J. De Graaff-Hunter. **110**, 338

Geodesy and Geophysics. South and East Africa and the International Union of. H. St J. L. Winterbotham. **26**, 230

Geodesy at Ordnance Survey 1791-1991. From Miles to Millimetres. The Story of. A. S. Macdonald and R. R. Christie. **241**, 126

Geodesy in Britain: A review of some current activities. J. G. Olliver. **209**, 113

Geodesy. Report on the international symposium on computational methods in geometrical. P. A. Cross. **171**, 237

Geodesy. Triaxial numbers with applications to. B. R. Bowring. **222**, 399

Geodesy. University of Nottingham, Institute of Engineering Surveying and Space. **232**, 93

Geodesy. University of Oxford, M.Sc. in. **163**, 234

Geodetic Adjustment of Australia. A. G. Bomford. **144**, 52

Geodetic and Isometric Latitude by Numerical Integration. Transformation of. H. Lichtenegger. **236**, 294

Geodetic and Topographical Surveys. Colonial, Directorate of. **61**, 271

Geodetic Anomalies, Practical Application of the Laplace Longitude-Azimuth Relation to the Control of. J. De Graaff-Hunter. **65**, 131

Geodetic applications. The Royal Society discussion meeting on satellite doppler tracking and. T. O. Crompton. **192**, 92

Geodetic applications. Very long base-line interferometry; an introduction and. V. Ashkenazi and D. McLintock. **204**, 279

Geodetic astronomy in the next decade. A. R. Robbins, **185**, 99

Geodetic Azimuth and Deviation of the Vertical. a Practical Method of Determining. J. C. Bhattacharji. **112**, 71

Geodetic Beacons. M. Hotine. **9**, 151

Geodetic calculations by microcomputer. Efficient. R. J. Ord-Smith. **211**, 227

Geodetic computation using a programmable pocket calculator. Direct problem. D. W. Murphy. **199**, 11

- Geodetic Control for Underground Construction of the Superconducting Super Collider. G. L. Robinson, W. J. T. Greening, E. C. Silver and A. Chrzanowski. **257**, 177
- Geodetic co-ordinates of a point. From the J topographic survey to the. V. Sciarrone and A. Vassallo. **227**, 248
- Geodetic Co-ordinates. Spherical Polygon with Direct Determination of Vertices. V. Sciarrone and A. Vassallo. **233**, 109
- Geodetic Datum- 1986. The Definition and Adjustment of the Fiji. I. Hannah and I. Maseyk. **231**, 33
- Geodetic datum from astrogeodesy. Determination of a local. F. L. Clarke. **196**, 268
- Geodetic Datum from Recent Doppler Observations. Definition of Nigerian. C. V. Ezeigbo. **237**, 343
- Geodetic Datum. A Model for the Establishment of an Integrated Regional. F. W. O. Aduol. **250**, 213
- Geodetic Datum. The 7-Parameter Transformation to a Horizontal. B-G. Reit. **268**, 400
- Geodetic Distances with the Solution of the First Fundamental Geodetic Problem. Unique Algorithm for the Calculation of. A. Vassallo and A. Secci. **255**, 50
- Geodetic Engineer and Surveyor. Towards an Integrated and Imaginative Approach to Practical Exercises in the Education of. A. L. Allan. **234**, 177
- Geodetic Evidence Concerning Wegener's Hypothesis, The. H. A. Stammers Smith. **65**, 90; **66**, 148
- Geodetic Figures in which both Angles and Sides have been measured and of Geodetic Traverses on the Transverse Projection. The Least Squares Adjustment of. E. T. Homewood. **124**, 248; **125**, 290
- Geodetic Figures with Observed Angles and Sides. The Least Squares Adjustment of. B. T. Murphy. **108**, 262
- Geodetic Heighting Strategy for Great Britain. A New. R. R. Christie. **252**, 328
- Geodetic instruments caused by ground vibrations. Instability of precise. P. Schramm. **221**, 351
- Geodetic Instruments. Modern. Henry Wild and Development in the Design and Construction of. Henry Wild, Jnr. **113**, 140
- Geodetic Instruments. Test Range for Calibration and Classification of. N. P. Net to and H. Erwes. **267**, 331
- Geodetic Latitude and height equations. The accuracy of. B. R. Bowring. **218**, 202
- Geodetic Latitude from the Isometric Latitude. An Alternative Formula for Finding the. A. Kaya. **253**, 450
- Geodetic Levelling Accuracies as used in a Geophysical Monitoring Scheme. Practical EDM Height Traversing to. R. J. Hibbert. **246**, 434
- Geodetic Levelling in Kenya. J. Loxton. **86**, 338
- Geodetic levelling. A report on the Nigerian. M. B. Ebong. **213**, 323
- Geodetic levelling: A new look at an old problem. The series of events model in the analysis of. E. B. Ebong. **229**, 338
- Geodetic levelling network. The Chebyshev adjustment of a. M. B. Ebong. **220**, 315
- Geodetic Measuring Technique and Instrument Problems. International Conference on. J. G. Olliver. **142**, 384
- Geodetic methods. Second international symposium on deformation measurements by. J. R. Smith. **193**, 118
- Geodetic Metrology. Some Investigations into Interferometric Methods for. A. N. Golubev and A. M. Checkovsky. **268**, 350
- Geodetic Network Adjustments. The Use of Geographic and Map Grid Coordinate Systems for. M. R. Shortis and J. W. Seager. **254**, 495

Geodetic Network at the Seismic Area of Lake Volvi in Northern Greece for detecting Real Crustal Movements. An Analysis of a Ten-year Survey of the. G. Asteriadis and H. Schwan. **245**, 390

Geodetic Network Model for the Analysis of Localised Earth Deformation. A Three-Dimensional. S. M. Musyoka and F. W. Aduol. **263**, 41

Geodetic network. An approach to sequential adjustment for the Nigerian. N. N. Ndukwe. **228**, 279

Geodetic Network. Doppler Satellite Control and its Application in the Egyptian. M. Elhoseny. **235**, 221

Geodetic Networks in Engineering Geodesy. Three-dimensional Adjustment of Local. T. Ninkov. **234**, 169

Geodetic Networks. A New Approach to the Optimal Second-Order Design of. Shanlong Kuang. **243**, 279

Geodetic networks. Computation of the vertical's deflection in. V. Achilli and P. Baldi. **205**, 327

Geodetic Networks. On position constraints and linear filtering in densified. F. N. Lugoe. **224**, 63

Geodetic networks. The numerical solution of observation equations arising from the least squares adjustment and statistical error analysis of. M. R. Shaw. **182**, 375

Geodetic networks. The second international symposium on problems related to the redefinition of North American vertical. P. A. Cross. **198**, 381

Geodetic Parameter Estimation through Iterative Weighting. Robust. F. W. O. Aduol. **252**, 359

Geodetic Parameters. An Evaluation of Some Robust Estimation Techniques in the Estimation of. J. L. Awange and F. W. O. Aduol. **273**, 146

Geodetic Positions in Nigeria. On conformal representation of. S. I. Agajelu. **223**, 3

Geodetic Problem. The Spatial Solution of the First Fundamental. R. Gargiulo and A. Vassallo. **268**, 405

Geodetic Quadrilateral, Further Remarks on Least Squares Adjustment of Linear Dimensions in a. A. Tárczy-Hornoch. **122**, 178

Geodetic Quadrilateral, Least Squares Adjustment of Linear Dimensions in a, Remarks on. A. Tárczy-Hornoch. **111**, 22

Geodetic Quadrilateral, Least Squares Adjustment of Linear Dimensions of a. B. T. Murphy and G. J. Thornton-Smith. **106**, 175

Geodetic Quadrilateral, The Selection of Pole and Condition Equation in the Least Squares Adjustment of Linear Dimensions in a. B. T. Murphy. **116**, 266

Geodetic Reference Datum. A Model for a Four-Dimensional Regional. F. W. O. Aduol. **264**, 91

Geodetic signals and instruments. Influence of vibrations on the stability of. P. Schramm. **218**, 214

Geodetic Survey of Canada. The. J. L. Rannie. **74**, 146

Geodetic Survey of Newfoundland, Progress of the. J. H. Burrige. **28**, 327

Geodetic Survey of South Africa and the Arc of the 30<sup>th</sup> Meridian. Sir D. Gill and the. J. Calder Wood. **48**, 50

Geodetic Survey, The United States Coast and: Its Work and Products. Rear Admiral Robert F. A. Studts. **81**, 98; **82**, 146

Geodetic Surveying Tapes, Measurement of Temperature of. J. S. Clark and L. O. C. Johnson, **89**, 110

Geodetic surveys in India 1930-35. G. Bomford. **200**, 65

Geodetic surveys in India; fifty years on. T. O. Crompton. **200**, 79

Geodetic symposium on satellite doppler positioning. The second international. D. W. Proctor. **194**, 181

- Geodetic System. Datum Transformation Parameters for the Kenya. A. S. Lwangasi. **247**, 39
- Geodetic Systems. Transformation of Co-ordinates between. T. Vincenty. **137**, 128
- Geodetic tapes. The NPL 50 metre laser interferometer for the verification of. S. J. Bennett. **172**, 270
- Geodetic terrestrial and space network. A. V. Ashkenazi, W. J. Preiss and B. Anderson. **209**, 117
- Geodetic terrestrial and space networks. Britdoc. A. V. Ashkenazi, W. J. Preiss and B. Anderson. **209**, 117
- Geodetic Traverse. Non-Iterative. M. I. Ozone. **240**, 81
- Geodetic Traverses, The Least Squares Adjustment of. B. T. Murphy. **112**, 66
- Geodetic Work in India-War and Post-War. B. L. Gulatee. **77**, 302
- Geodetic Work in the Gold Coast, Notes on. J. Clendinning. **11**, 297
- Geodetic work. Effect of introduction of Doppler on Sudan. A. B. Salih. **211**, 221
- Geodimeter Model 6. Accurate Measurement of a Short Line by. A. L. Allan. **145**, 98
- Geodimeter Model Six. Mounting a theodolite on a. A. L. Allan. **156**, 265
- Geodimeter on Routine Civil Engineering Projects. The Use of the. R. B. McVilly. **138**, 146
- Geodimeter Work. An adaptation of the Plane Mirror for Use in. R. B. McVilly. **142**, 359
- Geodimeter, The. An Instrument for the Accurate Measurement of Distances by High-Frequency Light Variations. **85**, 290; **86**, 363
- Geodimeter. Accurate measurement by. R. E. McLean. **153**, 123
- Geodimeter 12. The Aga. A. Allan. **178**, 191
- Geographic and Map Grid Coordinate Systems for Geodetic Network Adjustments. The Use of. M. R. Shortis and J. W. Seager. **254**, 495
- Geographic Latitude of the Ellipsoid (Numerical Solution by Microcomputers or Pocket Calculators). Two Methods for finding the. G. Targa and A. Vettori. **262**, 560
- Geographical Congress, July, 1964. The 20th International. C. I. M. O'Brien, **135**, 7
- Geographical Co-ordinates of Long Lines. Point to Point Computation of. J. N. Cole. **66**, 166
- Geographical Information Systems in Trinidad and Tobago. The Status of. J. Opadeyi. **252**, 379
- Geographical Positions in Malaya and Siam. A. G. Bazley. **30**, 450
- Geographical Positions in Mauritius and Rodriguez. A. G. Bazley. **27**, 290
- Geoid Computations in Peninsular Malaysia. Test. S. Ses and J. Gilliland. **278**, 523
- Geoid determination. Concerns related to GPS-derived. J-T. Lee and D. F. Mezera. **276**, 379
- Geoid Determination. The Use of GPS Data for Improving Local. N. Ananga and S. Sakurai. **259**, 334 :
- Geoid due to a loading of the earth's crust. Local changes in the. C. J. Bacon. **216**, 103
- Geoid for mapping control by Doppler translocation. Heights above the. M. C. Breach and P. Maye. **230**, 363
- Geoid for the Hellenic Region via Deformation Analysis. Effect of Systematic Errors due to the Non-coincidence of the Reference Surface with the. A. M. Agatza-Balodimou and C. Mitsakaki. **232**, 51
- Geoid in Africa. Doppler. H. H. Fashir and K. A. Abdalla. **241**, 175
- Geoid in Sudan. Doppler. A. B. Salih, H. H. Fashir and K. A. Abdalla. **237**, 319
- Geoid in the Coordinate Transformation. The Role of the. Hussein Abd-Elmotaal and Mohammed El-Tokhey. **263**, 31

Geoid Maps of Great Britain. Space-derived. J. G. Olliver. **244**, 310

Geoid of Kenya. The detailed gravimetric. M. K. Gachari and J. G. Olliver. **221**, 365

Geoid of the British Isles. A New Gravimetric Determination of the. W. E. Featherstone and J. G. Olliver. **254**, 464

Geoid of the Eastern Africa Region. A High Resolution Gravimetric. M. K. Gachari and J. G. Olliver. **269**, 421

Geoid results using mean gravity anomalies and potential coefficients in the South Australian Region. Comparisons of gravimetric. J. R. Gilliland. **215**, 41

Geoidal heights for Africa from GEM 9 potential coefficients and degree gravity anomalies. G. Obenson. **218**, 207

Geoidal heights in Southern Africa. A note on. C. L. Merry. **189**, 303

Geoidal Heights of Nigeria. The. S. I. Agajelu. **235**, 229

Geoidal Modelling for the Ministry of Water Resources, Sultanate of Oman. Levelling Control Networks and. P. M. Gibbs. **275**, 329

Geoidal Section through Great Britain, A. A. R. Robbins. **128**, 69; **129**, 121

Geoidal studies in Australia. R. S. Mather and J. G. Fryer. **156**, 268

Geoidal Tilt on Azimuth, Influence of: G. T. M. **16**, 105

Geoids for Great Britain and Ireland. Satellite-derived. J. G. Olliver. **202**, 161

Geoid-spheroid separation and network design. J. G. Fryer. **185**, 126

Geomat range of surveying instruments from VEB Carl Zeiss Jena. M. A. R. Cooper. **168**, 85

Geomensor CR204. Baseline test results. The, A. H. Dodson and P. Fleming. **229**, 351

Geometric network relaxation. Computation and adjustment by. K. N. Greggor. **170**, 145

Geometrical Improvement of Inhomogeneous Cadastral Maps. Digitisation and. D. Morgenstern, K. M. Prell and H. G. Riemer. **234**, 149

Geometrical Quadrature of a normal section. B. Buonocore and A. Vassallo. **215**, 25

Géométrie des Sphéroïdes à l'Usage des Ingénieurs Géographes. Vol. I. Jean Laborde. (E. H. Thompson). **63**, 35

Geophysical Monitoring Scheme. Practical EDM Height Traversing to Geodetic Levelling Accuracies as used in a. R. J. Hibbert. **246**, 434

Geoponder: an experimental optical transponder for electromagnetic distance measurement. The NPL. K. D. Froome and G. Russell. **184**, 51

Geopotential numbers in adjustment computations. Weights for. S. Subramaniam. **202**, 244

Geopotential, Height and. J. E. Jackson. **128**, 96

Georan I, a compact two-colour EDM instrument Part II: electronic principles. R. H. Bradsell. **179**, 219

Georan I, a compact two-colour EDM instrument. Part I: basic principles. G. Shipley. **179**, 210

George Everest-Surveyor General Kishewar Hind. J. R. Smith. **237**, 302

*George, Frank*. A Spiral Transformation for the Conical Orthomorphic Projections, and a Graphical Construction. **115**, 215

Georgia, South, The Survey of. Captain A. G. Bomford and W. S. B. Paterson. **107**, 204; **108**, 242

*Georgopoulos, G., Balodimos, D.-D. and Telioni, V.* Kinematic Adjustments of a Levelling Control Network. **253**, 405

Geotracer. Calibration of an Aga. T. O. Crompton. **189**, 311

*Ghosh, S. K.* Determination of Azimuth and Latitude from Observations of a Single Unknown Star. **87**, 17

*Gibbs, P.M.* Levelling Control Networks and Geoidal Modelling for the Ministry of Water Resources, Sultanate of Oman. **275**, 329

- Gilbert, C. O.* Beacon versus Deed-Plan. **3**, 98
- Gilbert, C. O.* The Cadastral Map. **14**, 496
- Gill, Sir D. and the Geodetic Survey of South Africa and the Arc of the 30th Meridian. J. Calder Wood. **48**, 50
- Gilliland, J. R. and Jaksa, D. S.* GPS-A Tool for Orthometric Height Determination. **251**, 265
- Gilliland, J. R.* Comparisons of gravimetric geoid results using mean gravity anomalies and potential coefficients in the South Australian Region. **215**,41.
- Gilliland, J. R. and Ses, S.* A New Height Control for Peninsular Malaysia. **265**, 151
- Gilliland, J. R. and Ses, S.* Test Geoid Computations in Peninsular Malaysia. **278**, 523
- Gillissen, I.* Area Computation of a Polygon on an Ellipsoid. **248**, 92
- GIS. The 'S' in. D. Parker and G. Taylor. **246**, 465
- Glacier movement studies. Survey reduction for. A. C. Wager, C. S. M. Doake, J. G. Paren and J. L. W. Walton. **196**, 251
- Global Positioning System for Primary Survey Control in Nigeria. The Use of. G. A. Oyeneye, M. A. Macaulay and M. B. Ebong. **240**, 107
- Global Positioning System Survey as the Solution for Quick Large Scale Mapping. Kinematic. B. S. Rajal and H. B. Madwhal. **265**,159
- Gnomonic Projection, An Octahedral. F. V. Botley. **94**, 379
- Gnomonic Projection, The Oblique. Norman Pye. **75**, 227
- Goh Pong Chai and Aw York Bin.* Improving Cadastral Survey Controls using GPS Surveying in Singapore. **261**, 488
- Gold Coast Survey. Standardizing Equipment of the Department: J. Clendinning. **19**, 258
- Gold Coast. Cadastral Traverses in the. A. V. Lawes. **58**, 138
- Gold Coast. Notes on Geodetic Work in the. J. Clendinning. **11**, 297
- Gold Coast. Notes on the Use of Aneroid Barometers in the: G. C. Rogerson. **14**, 502
- Gold Coast. The Measurement of a Long. Base Line in the: E. W. Nesham. **4**, 176
- Gold Coast. The Year in the, J. Clendinning. 1930-31, **1**, 35; 1935-6 and 1936-7; **26**, 234
- Golubev, A. N.* Absolute Laser Interferometric Distance Measurement. **248**, 109
- Golubev, A. N. and Chekhovskiy, A.M.* Some Investigations into Interferometric Methods for Geodetic Metrology. **268**, 350
- Goodwin, D. and Drummond, J.* Communal Family Tenure -An Examination of Scotland's Crofting and Zimbabwe's Communal Area Tenure. **270**, 482
- Goonewardene, R. A.* Institute of Surveying and Mapping, Sri Lanka. **177**, 101
- Gordon, A.* 250 Years of Military Survey: 1747-1997. **266**, 247
- Gordon, D. L., Bullerwell, W., and Cook, A. H.* Crustal Movements in the United Kingdom and their Measurement. **138**, 153
- Gorham, B. J.* Electronic angle measurement using coded elements, with special reference to the Zeiss Reg Elta 14. **180**, 271
- Gorham, B. J.* Position and Attitude Measurements for Site-Vehicles in Real Time. **278**,533
- Goss, P. H.* The Penggawas' Roads of Kelantan. **32**, 89
- Gougenheim, A.* Determination of Latitude and Azimuth from Observations of an Unknown Star. **94**, 342
- Gough Island, The Survey of. J. B. Heaney. **104**, 63.
- Goussinsky, B.* On the Classification of Map Projections. **80**, 75
- Goussinsky, B.* Two Simplified Checks. **20**, 337

- Goussinsky, B.* A Proposal for the Standardization of Scales of Maps in Cartography. **109**, 298
- Goussinsky, B.* Another Method of Finding a Gross Angular Error in Traverse Observations, **42**, 216
- Goussinsky, B.* Checking Traverse Computations. **49**, 129
- Goussinsky, B.* Checking Reduction of Normal Equations. **70**, 351
- Goussinsky, B.* Implicit Condition Equations in the Adjustment of Triangulation Figures. **61**, 264
- Goussinsky, B.* Interpolating from Traverse Tables to Seconds. **40**, 134
- Goussinsky, B.* Note on Levelling up the Plate. **84**, 282
- Goussinsky, B.* On Observation and Adjustment. **95**, 30
- Goussinsky, B.* Some Notes on the Adjustment of Traverses. **60**, 227
- Goussinsky, B.* Some Notes on the Elling Method of Computing Areas by Machine. **26**, 221
- Goussinsky, B.* The Surveyor's Pythagoras. **26**, 223
- Goussinsky's Tables, A Commentary on. Professor G. H. Menzies. **118**, 374
- GPS A Tool for Orthometric Height Determination. J. R. Gilliland and D. S. Jaksa. **251**, 265
- GPS Ambiguity Resolution. Satellite Geometry. Consideration for Efficient. Esmond Mok and Shaowei Han. **271**, 23
- GPS and Inertial System for Precise Surveying Applications. Integration of. W. Chen and P. A. Cross. **238**, 375
- GPS and Terrestrial Measurements for Detecting Crustal Movements in a Seismic Area. G. Asteriadis and H. Schwan. **269**, 447
- GPS Antennas. A Checking Technique for High Precision. A. K. Chong and B. B. Kam. **277**, 464
- GPS Code and Phase Observables. Estimation of the Stochastic Model. C. C. J. M. Tiberius and F. Kenselaar. **277**, 441
- GPS Data for improving Local Geoid Determination. The Use of. N. Ananga and S. Sakurai. **259**, 334
- GPS for Height Determination. The Status of. A.H. Dodson. **256**, 66
- GPS in an Engineering Environment (Parts 1 and 2). Heights from. P.A. Collier and M. J. Croft. **263**, 11; **264**, 76
- GPS Measured Distances without Cycle Slips. A Real-Time Solution for. Liu Jiyu. **247**, 31
- GPS Measurements via Cellular Phone. A Statistical Analysis of Real Time Long Range. A. K. Chong and M. Dewhurst. **266**, 212
- GPS Multipath Mitigation using FIR Filters. S. Han and C. Rizos. **277**, 487
- GPS Network. Adjustment Method. A Practical. Jiexian Wang and Hüseyin Bâki Iz. **272**, 127
- GPS Networks by Linear Programming. Optimisation of. G. Evan-Tzur and H. Papo. **262**, 537
- GPS Networks. A Simple Adjustment Procedure for Local. J. G. Olliver. **274**, 218
- GPS Networks. Datum Definitions for. G. Even-Tzur. **277**, 475
- GPS Observations and the Channel Tunnel. C. E. Calvert. **231**, 3
- GPS Observations. The Estimation of Crustal Deformation in the Shanxi Area, China, from the 1996 and 1997. Q. W. Liu, Y. Q. Chen and Y. X. Li. **275**, 349
- GPS Phase Base Ambiguity Resolution by Combined Phase and Code Observables. A New Method for. L. E. Sjoberg. **268**, 363
- GPS Single Epoch Ambiguity Resolution. S. J. Corbett and P. A. Cross. **257**, 149
- GPS Station Selection in an Existing Primary Control Network. Szu-pyng Kao. **251**, 279

GPS Surveying in Singapore. Improving Cadastral Survey Controls using. Aw York Bin and Goh Pong Chai. **261**, 488

GPS Surveys. Signal Distortion in High Precision. H. Hartinger and F. K. Brunner. **270**, 531

GPS Techniques Applied to Geodesy and Surveying. **235**, 239

GPS Techniques on Engineering Surveying Applications using the Wild GPS System 2000. Studies of the. Esmond Mok and Jansen So. **256**, 115

GPS to control a triangulation network. Using. V. Ashkenazi, T. Moore, M. E. Napier and C. de la Fuente. **228**, 287

GPS. A Methodology for Benchmarking Real Time Kinematic. S. J. Edwards, P. A. Cross, J. B. Barnes and D. Bétaille. **273**, 163

GPS. Cut Slope Deformation Determination with. N. Ananga, S. Sakurai and I. Kawashima. **265**, 144

GPS. High-Precision Land Reclamation Monitoring with. N. Ananga, S. Sakurai and I. Kawashima. **258**, 263

GPS. Strategies for the Accurate Determination of Orthometric Heights from. W. E. Featherstone, M. C. Dentith and J. F. Kirby. **267**, 278

GPS-derived Geoid determination. Concerns related to. J-T. Lee and D. F. Mezera. **276**, 379

Graduations of Staves for Tacheometry by "Even Angles" or "Height of Instrument" Methods. S. E. Evans. **90**, 185

Graduations on Geodetic Levelling Staves. J. Niblock. **138**, 169

*Grafarend, E. and Schaffrin, B.* Unbiased free net adjustment. **171**, 200

*Grant, D. Ting, L., Williamson, I. P. and Parker, J. R.* Understanding the Evolution of Land Administration Systems in Some Common Law Countries. **272**, 83

Graph Theory to the Ordering of Large Survey Networks. Application of. F. L. Clarke and C. K. Tan. **235**, 195

Graphic chart for the analysis of observations in a gravimetric network. The use of the. I. B. Osazuwa and D. E. Ajakaiye. **221**, 345

Graphical Computation of Spherical Excess: G. P. Rao. **9**, 167

Graphical Method of Selecting Stars for Astronomical Observations. A. D. Gadd. **118**, 377

Graphical Predictions for the Echo I Satellite from Observations at one Equatorial Station. P. Hartog. **129**, 106; **130**, 165

Graphical Sidelight on the Adjustment of. a Doubly-Braced Quadrilateral of Measured Lines, A. G. J. Thornton-Smith. **124**, 259

Graphics. Interactive survey. S. K. Sharma. **187**, 202

Gravimeter calibration line. Nigeria. P. J. T. Verheijen and D. E. Ajakaiye. **190**, 373

Gravimeter Calibration Line. The Nigerian standard. I. B. Osazuwa. **245**, 397

Gravimeters. The Field Calibration of. J. F. Bell. **144**, 72

Gravimetric Data from One Reference Datum to Another. An Evaluation Study of the Correct Computational Approach for the Conversion of. I. B. Osazuwa. **249**, 167

Gravimetric data. Cascade model for the removal of drift from. I. B. Osazuwa. **228**, 295

Gravimetric Determination of the Geoid of the British Isles. A New. W. E. Featherstone and J. G. Olliver. **254**, 464

Gravimetric Determination of Upper Crustal Density Distribution. J. C. Bhattacharji. **260**, 411

Gravimetric geoid of Kenya. The detailed. M. K. Gachari and J. G. Olliver. **221**, 365

Gravimetric Geoid of the Eastern Africa Region. A High Resolution. M. K. Gachari and J. G. Olliver. **269**, 421

- Gravimetric geoid results using mean gravity anomalies and potential coefficients in the South Australian Region. Comparisons of. J. R. Gilliland. **215**, 41
- Gravimetric networks. The use of the graphic chart for the analysis of observations in a. I. B. Osazuwa and D. E. Ajakaiye. **221**, 345
- Gravimetric Studies a Case Study from Nigeria. Strategies in. I. B. Osazuwa. **252**, 368
- Gravitational Attraction of Rectangular Masses. The, A. C. Ruffhead. **251**, 273
- Gravity and Circuit Closures in the Nigerian Levelling. Normal. M. B. Ebong. **233**, 115
- Gravity and Co-Geoidal Effects Based on Airy- Heiskanen and Pratt-Hayford Hypotheses using 1° Averaged Topographic Masses on the Idealised Earth. A Short Note on the Simultaneous Determination of Isostatic. J. C. Bhattacharji. **253**, 415
- Gravity anomalies and. Potential coefficients in the South Australian Region. Comparison of gravimetric geoid results using mean J. R. Gilliland. **215**, 41
- Gravity anomalies. Geoidal heights for Africa from GEM 9 potential coefficients and degree. G. Obenson. **218**, 207
- Gravity Anomalies. Moho Depths versus. Hussein Abd-Elmotaal. **273**, 175
- Gravity Field in Inaccessible Regions. Determination of the Earth's. J. C. Bhattacharji. **247**, 22
- Gravity field. Vol. II. Geodynamics and advanced methods. Geodesy and the earth's. E. Groten. **202**, 206
- Gravity Net in Egypt. Effects due to Detection of Gross Errors in the. Hussein Abd-Elmotaal and Mohammed EI-Tokhey. **266**, 223
- Great Britain. A Geoidal Section through. Dr. A. R. Robbins. **128**, 69; **129**, 121
- Great Britain. A New Geodetic Heighting strategy for. R. R. Christie. **252**, 328
- Great Britain. Reproduction of the 1/1250 and 1/2500 Scale National Plans of. S. G. Hudson. **71**, 16
- Great Britain. Space-derived Geoid Maps of. J. G. Olliver. **244**, 310
- Great Britain. The 1/1,250 Re-Survey of. Brigadier R. P. Wheeler. **68**, 234
- Greater London Council-the work of the Land Survey Division of the. P. C. Sherwood. **166**, 338
- Greece. Determination of Ground Displacements in the Seismic Zone of Volvi, .P. Savvaidis et al. **266**, 229
- Green, P. F.* A new survey target for industrial metrology. **181**, 319
- Green, P. F.* Some commercial surveys using prototype Mekometers. **173**, 317
- Greening, W. J. T., Robinson, G. L., Silver, E. C. and Chrzanowski, A.* Geodetic Control for Underground Construction of the Superconducting Super Collider. **257**, 177
- Greenway, I. and Mhlanga, A.* Recent Experiences in Developing Swaziland's Surveyor General's Department. **274**, 231
- Greggor, K. N.* Computation and adjustment by geometric network relaxation. **170**, 145
- Grid Bearings and Distances on the Conical Orthomorphic Projection, J. Clendinning. **48**, 68; **51**, 211; **52**, 248.
- Griffiths, R. E. C. and Rusk, A. J.* A Note on Echo Sounding. **101**, 296
- Griffiths, R. E. C. and Rusk, A. J.* A Technique for Setting Out. **98**, 146
- Griffiths, W. J., Iliffe, J. C. and Message, E. L.* Localised Geoid Determination for Engineering Control Surveys. **275**, 320
- Groningen Gasfield. On the Estimation of Polynomial Breakpoints in the Subsidence of the. H.M.E. Verhoef and H. M. de Heus. **255**, 17
- Gross Angular Error in Traverse Observations, Another Method of Finding a B. Goussinsky. **42**, 216

- Ground Control for Air Surveys at Large Scales, Computation of. C. W. B. King. **113**, 128
- Ground Marking and Survey Records of an Engineering Construction Scheme. N. B. Favell. **55**, 30
- Ground Modelling and Earthwork Volume Estimation. A Lesson in Achieving Appropriate Accuracies. D. Z. Seker and D. Parker. **264**, 110
- Ground Swing on Tellurometer Measurements, a Method of Reducing. J. Kelsey. **112**, 58
- Gulatee, B. L.* Geodetic Work in India-War and Post. War. **77**, 302
- Gulatee, B. L.* Angular Corrections for the Lambert Orthomorphic Conical Projection, **62**, 311
- Gulatee, B. L.* Connection of India, Siam and Malaya Triangulation. **74**, 175
- Gulatee, B. L.* Trigonometrical Heights and the Coefficient of Terrestrial Refraction: **83**, 224
- Gwilliam, R.* A Note on the Adjustment of Minor Traverse Networks, **114**, 182
- Gyro attachment. A modified G.A.K.1. R. C. H. Smith, **183**, 3
- Gyroscope oscillations using the transit method. Determination of the position of the null line of. Z. G. Popovic. **213**, 303
- Gyroscope. The six methods of finding north using a suspended. T. L. Thomas, **203**, 225; **204**, 257
- Gyrotheodolite Observations. The Reduction of. H. S. Williams and G. E. Belling, **146**, 184
- Gyrotheodolite. A critical review of the practical use of the. H. S. Williams. **190**, 339
- Gyrotheodolites -a discussion. T. P. Jones. **197**, 327
- Gyrotheodolites into British colliery surveying practice with particular reference to the Wild GAK-1 gyro attachment. The introduction of. D. J. Hodges. **194**, 157
- Haggett, B. C.* The Rejection of Theodolite Readings in the Field: a proposed Method. **142**, 381
- Haggren, H., Pöntinen, P., Manninen, T., Peräläinen, I., Pesonen, J., and Rantasuo, M.* Airborne 3-D Profilometer. **259**, 325
- Haldrup, N. O.* Adjudication -A Way of Coping with Incomplete Information in Developing Countries. **262**, 504
- Halliday, E. X.* An experiment in Hydro static Levelling. **152**, 94
- Halliday, G. H.* Triangulation by the Direction (Graphical) Method. **121**, 107; **122**, 166
- Hamilton, A. D.* Traversing in Anthill Country. **32**, 92
- Hamilton, A. M.* Thoughts on the Ruwandiz Road. **8**, 86
- Han, S. and Rizos, C.* GPS Multipath Mitigation using FIR Filters. **277**, 487
- Hannah, J. and Maseyk, J.* The Definition and Adjustment of the Fiji Geodetic Datum - 1986. **231**, 33
- Harnack, W.* Sarawak Lands and Survey Department. Annual Report for 1935. **22**, 490; 1937, **29**, 437; 1939, **38**, 505
- Harnack, W.* The Primary Triangulation of Sarawak. **42**, 206
- Harrap, J. R. G.* Cyprus survey centenary. **192**, 86
- Harris, L. J.* The School of Military Survey and its Courses for Commonwealth Surveyors. **73**, 106
- Hart, C. A.* Modern Influences on the University Aspect of Professional Training in Surveying. **69**, 282
- Hart, C. A.* Modern Mapping-Including the Employment of Radio Techniques and with Special Reference to Economic Development. **65**, 101
- Hart, C. A.* Surveying from Air Photographs Fixed by Remote Radar Control. **64**, 71

Hartebeesthoek94 Co-ordinate System in South Africa. The Implementation of the. R. T. Wonnacott. **274**, 243

Hartinger, H. and Brunner, F. K. Signal Distortion in High Precision GPS Surveys. **270**, 513

Hartog, P. Field Tests with Wallace and Tiernan Altimeters near Moshi, Tanganyika. **113**, 117

Hartog, P. Graphical Predictions for the Echo I Satellite from Observations at One Equatorial Station. **129**, 106; **130**, 165

Hartog, P. The Tyranny of Survey Regulations. **121**, 132

Hash, G. S. Effects of transceivers on electro-magnetic distance measurements. **187**, 213

Hatzfeld, D. et al. Determination of Ground Displacements in the Seismic Zone of Volvi, Greece. **266**, 229

Hawkey, W. Land information, New Zealand: the experience of a developing nation. **221**, 331

Heaney, J. B. The Survey of Gough Island. **104**, 63

Height and Geopotential. J. E. Jackson. **128**, 96

Height Closing Error in Multiplex Bridges Caused by Non-Flat Diapositives, The. H. Käding. **94**, 349

Height Control in Air-Photo Survey. J. W. Loxton. **41**, 48

Height controlled space. Differential relationships with applications to adjustment in. B. R. Bowring. **210**, 157

Height Determination of Mount Kilimanjaro, Tanganyika, East Africa, August-September, 1952. The. K. T. Pugh. **91**, 194

Height Determination. GPS A Tool for Orthometric. J. R. Gilliland and D. S. Jaksa. **251**, 265

Height Determination. The Status of GPS for. A.H. Dodson. **256**, 66

Height equations. The accuracy of geodetic latitude and. B. R. Bowring. **218**, 202

Height Indicator, The Survey of India: M. O'C. Tandy. **16**, 71

Height of Mount Everest. The, P. V. Angus-Leppan. **206**, 367

Height of Kilimanjaro, The Calculation of the. W. L. Dickson. **91**, 206

Height of Kilimanjaro. J, Saburi, N. Angelakis, K. Jaeger, M. Illner, P. Jackson and K. T. Pugh. **278**, 551

Height of Lake Tana, Ethiopia. The. D. R. Crone. **99**, 220

Height of Mount Everest. The. P. V. Angus-Leppan. **206**, 367

Height of Signal, Correction to Bearing for. G. T. McCaw. **48**, 57

Height Traversing to Geodetic Levelling Accuracies as used in a Geophysical Monitoring Scheme. Practical EDM. R. J. Hibbert. **246**, 434

Height Traversing with Reduction Tacheometers. Errors in. R. S. Mather. **135**, 24

Height. The surface of constant. B. R. Bowring. **197**, 332

Heighting from Near Vertical Photographs, The Rand Method of. D. R. Crone. **83**, 163; **83**, 205

Heighting Strategy for Great Britain. A New Geodetic. R. R. Christie. **252**, 328

Heighting. An empirical method for refraction modelling in trigonometrical. V. Ashkenazi and P. D. Howard. **213**, 311

Heights above Mean Sea Level, Local Attractions and their Influence on the Determination of: H. L. P. Jolly. **12**, 352, **14**, 464

Heights above the geoid for mapping control by Doppler translocation. M. C. Breach and P. Maye. **230**, 363

Heights and Height Velocities. Zero-Epoch. N. Ananga, R. Coleman and C. Rizos. **251**, 307

Heights by Aneroid Barometer. D. R. Crone. **69**, 311

Heights by laser alignment. Determination of. J. Kwiecien. **222**, 411

Heights from Air Photographs, Some Factors in Determining: D. R. Crone. **10**, 221

Heights from Aneroid Readings Based on a Standard Atmosphere and Lapse Rate, Charts for the Reduction of. J. C. Bhattacharji, **115**, 222

Heights from GPS in an Engineering Environment .P .A. Collier and M. J. Croft. **263**, 11; **264**, 76

Heights of Nigeria. The Geoidal. S. I. Agajelu. **235**, 229

Heights on Kilimanjaro. Peter Wilkinson. **95**, 32

Heights, Correction of Plane-table. for Curvature of the Earth and Atmospheric Refraction. D. R. Crone. **20**, 350

Heights. Trigonometrical. and the Coefficient of Terrestrial Refraction. B. L. Gulatee. **83**, 224

Heinrich Wild. G. Strasser. **188**, 258

Heinrich Wild's Contribution to the Development of Modern Survey Instruments. G. J. Strasser. **140**, 263

Helicopters on Six-inch Resurvey in Scotland during the 1964-65 Field Seasons. The Use of. R. M. Beresford. **141**, 312

Helicopters. Altimeter Heighting using Wessex and Whirlwind. R. P. V. Newberry. **149**, 290

Hellenic Region via Deformation Analysis. Effects of Systematic Errors due to the Non-coincidence of the Reference Surface with the Geoid for the. A. M. Agatza-Balodimou and C. Mitsakaki. **232**, 51

*Hellewell, E. G.* Some performance tests on a Worden master gravimeter. **162**, 159

*Hellings, S.* Radar Controlled Air Survey Photographic Operations in Africa. 1946-1952, **92**, 254; **93**, 303

*Hendrikz, D. R.* Adjustment of the Secondary Triangulation of South Africa. **29**, 430; **30**, 470

*Hendrikz, D. R.* Adjustment of Simple Figures. **33**, 137; **34**, 198; **35**, 279

*Hendrikz, D. R. and Smuts, P. M.* The Cape Bar " A " and the Metre-Foot Relation. **75**, 202

*Hendrikz, D. R.* Cadastral Mapping. **28**, 338

*Hendrikz, D. R.* The Conformal Transformation of a Network of Triangulation. **85**, 319

Henry VII's Chapel at Westminster Abbey: Photogrammetric Recording and Survey Control. L. D. Blank and A. L. Allan. **270**, 517

Heptagon. The Regular. A. F. Porter. **248**, 409

Hewlett-Packard 3800B distance meter. A note on experiences with a. C. M. St. John. **175**, 34

Hewlett-Packard 3800B distance meter-a field evaluation. B. D. F. Methley. **174**, 337

Hewlett-Packard 9810 desk calculator and its predecessors. J. R. Smith. **163**, 211

Hewlett-Packard 9820 desk calculator. A cadastral application of the. J. L. Fleure. **171**, 193

Hewlett-Packard.35 calculator. B. J. Cox. **166**, 382

*Hibbert, R. J.* Practical EDM Height Traversing to Geodetic Levelling Accuracies as used in a Geophysical Monitoring Scheme. **246**, 434

*Higgins, A. L.* Defects of Surveying Telescopes. **55**, 18

High Signals. A Simple Method of Erecting. J. E. S. Bradford. **67**, 226

High accuracy surveying in engineering and industrial sites. Present developments in. A. L. Allan. **209**, 125

High Latitudes, Laplace Points in Moderate and. A. N. Black. **82**, 177

High Precision GPS Antennas. A Checking Technique for. A. K. Chong and B. B. Kam. **277**, 464

- High Resolution Gravimetric Geoid of the Eastern Africa Region. A, M. K. Gachari and J. G. Olliver. **269**, 421
- High Tripod and Platform for Theodolite Work, A Portable. S. E. Evans. **67**, 230
- Highlights of Shrivvenham. D. Watson. **166**, 379
- High-Precision Land Reclamation Monitoring with GPS. N. Ananga, S. Sakurai and I. Kawashima. **258**, 263
- Highway Transition Curve Design. A. G. Tyson. **75**, 206; **76**, 261; **77**, 315
- Hill Shading from Air Photographs in the Directorate of Overseas Surveys. Some Recent Developments in. **127**, 3
- Hillerman, R. and Fourie, C.* The South African Cadastre and Indigenous Land Tenure. **265**, 174
- Hills, G. F. S.* "Compensation" as a Consequence of Two Kinds of Rock Structure. **24**, 68
- Hills, G. F. S.* The Cooling of the Earth by Convection. **34**, 207
- Hispano-Muslim Astronomy. A Note on. W. A. Garstin. **86**, 356
- History. Surveys and. H. S. L. Winterbotham. **51**, 186
- Hoar, G. J. and Allman, J. S.* Optimisation of geodetic networks. **167**, 11
- Hodges, D. J.* Meeting of Teachers of Surveying, Dec. 1967. **148**, 277
- Hodges, D. J.* The introduction of gyro-theodolites into British colliery surveying practice with particular reference to the Wild GAK-1 gyro attachment. **194**, 157
- Hodgson, A.* Surveys for the Lilongwe land development project. **186**, 147
- Hogarth, B. et al.* Britdoc. 1982 Doppler campaign results. **210**, 169
- Hogg, F. B. R. and Armstrong, J. A.* Two New Self-Aligning Levels. **111**, 2
- Hollwey, J. R. and Allan, A. L.* Two Methods of forming Condition Equations for Linear Measurements. **136**, 77
- Hollwey, J. R.* Instrument review. Topcon GTS-2. **207**, 43
- Hollwey, J. R.* Watts ST300 series microptic theodolite. **166**, 385
- Holscher, H. D.* An electro-optical distance-measuring system of high accuracy for short ranges. **157**, 309
- Homewood, E. T.* The Computation of Geodetic Areas of Standard Map Sheets in Victoria. **101**, 309
- Homewood, E. T.* The Least Squares Adjustment of Geodetic Figures in which both Angles and Sides have been :Measured and of Geodetic Traverses on the Transverse Mercator Projection. **124**, 248; **125**, 290
- Hong Kong. A Model for the Transformation between Satellite and Terrestrial Networks in. E. Mok. **244**, 344
- Hong Kong. Surveys for a mass transit system in. J. T. Cooper. **172**, 257
- Hopcke, W.* On the Curvature of Electromagnetic Waves and its Effect on the Measurement of Distance. **141**, 298
- Horizontal Angle Networks. Traverse Network Adjustments Part II. C. W. B. King. **145**, 132
- Horizontal Angle Observations in Astronomy. General Theory for. L. A. White. **141**, 316; **142**, 346
- Horizontal Angles in Astronomy. T. L. Thomas. **148**, 283
- Horizontal Angles in Triangulation. Some Practical Suggestions Regarding their Observation and Adjustment. J. H. Cole. **87**, 36
- Horizontal Angles. Primary. A Method of Observing. J. E. S. Bradford. **67**, 222
- Horizontal Directions. Astronomical Position and Azimuth by. L. P. Adams. **148**, 242
- Horizontal Displacements Associated with the 1999 Taiwan Earthquake. Estimates of. C. C. Chang. **278**, 562
- Horkan, S. B., Kennie, T. I. M. and Howard, C. M.* A Preliminary Assessment of the Tellurometer MA 200 for Vibrational Measurement of Flexible Structures. **232**, 67

- Horsfield, W.* Report of Survey Division, Lands and Mines Department, Tanganyika. **33**, 169
- Horsfield, W., and Erritt, W. A.* Instructions for the Use of the Prismatic Astrolabe and Programme Finder. **21**, 398
- Hotine Exhibition. The. **166**, 391
- Hotine symposium on mathematical geodesy. Fourth. P. A. Cross. **191**, 45
- Hotine, M.* The East African Arc IV. Base Measurement. **18**, 203
- Hotine, M.* The Re-triangulation of Great Britain. **25**, 130; **26**, 194; **29**, 386
- Hotine, M.* The East African Arc: III. Observations. **16**, 72
- Hotine, M.* An Aspect of Attraction. **7**, 24
- Hotine, M.* Laplace Azimuths. **1**, 24; **2**, 66
- Hotine, M.* **130**, 154
- Hotine, M.* Professional Organization. **67**, 195
- Hotine, M.* Survey for Colonial Development. **77**, 290
- Hotine, M.* The General Theory of Tape Suspension in Base Measurement. **31**, 2
- Hotine, M.* The Orthomorphic Projection of the Spheroid. **62**, 300; **63**, 25; **64**, 52; **65**, 112; **66**, 157
- Hotine, M.* The Re-triangulation of Great Britain, IV-Base Measurement. **34**, 211
- Hotine, M.:* Figures and Fancies. **11**, 264
- Hotine, M.:* Geodetic Beacons. **9**, 151
- Hotine, M.:* The East African Arc -II. Marks and Beacons. **14**, 472
- Hotine, M.:* The East African Arc, The Lay-out of. **12**, 357
- Hoverover, **158**, 396
- How New South Wales was Mapped in a Generation. A Saga of Achievement. H. S. Rassaby. **260**, 362; **261**, 434
- Howard, C. M., Kennie, T. I. M. and Horkan, S. P.* A Preliminary Assessment of the Tellurometer MA 200 for Vibrational Measurement of Flexible Structures. **232**, 67
- Howard, P. D. and Ashkenazi, V* An empirical method for refraction modelling in trigonometrical heighting. **213**, 311
- Hsuan-Loh Su.* Adjustment of a Level Net by Successive Approximations and by Electrical Analogy. **95**, 8; **96**, 58
- Hudson, C. and Allan, A. L.* The figure of the earth. **225**, 120
- Hudson, S. G.* Reproduction of the 1/1250 and 1/2500 Scale National Plans of Great Britain. **71**, 16
- Hui Qin, Xiaoli Ding, Minghai Jia and Jason Chao.* Variance Component Estimation for Recursive Least Squares Adjustments. **272**, 117
- Humphries, G. J. and Brazier, H. H.* First-Order Traversing with the Tellurometer. **109**, 290
- Hunter Shutter Eyepiece for Longitude and Azimuth. The. J. De Graaff-Hunter. **63**, 20
- Hunter, J. De Graaff-* Earth Curvature and Refraction. **81**, 132
- Hunter, J. De Graaff-* The International Union of Geodesy and Geophysics, 1948. **72**, 50
- Hunter, J. De Graaff-* Figures of Reference for the Earth. **8**, 73
- Hunter, J. De Graaff-* Further Notes on Figures of Reference. **12**, 329
- Hunter, J. De Graaff-* Two Notes on Short Tertiary Bases. **1**, 12
- Huntly, H. G.* The International Union of Geodesy and Geophysics, Sixth General Assembly. **23**, 54
- Hüseyin Bâki Iz and Jiexian Wang.* A Practical GPS Network Adjustment Method. **272**, 127

- Hussein Abd-Elmotaal and Mohammed El- Tokhey.* Effects due to Detection of Gross Errors in the Gravity Net in Egypt. **266**, 223
- Hussein Abd-Elmotaal and Mohammed El- Tokhey.* The Role of the Geoid in Coordinate Transformation. **263**, 31
- Hussein Abd-Elmotaal.* Moho Depths versus Gravity Anomalies. **273**,175
- Husti, G. J.* A method of determining latitude and azimuth simultaneously by star altitudes. **184**, 66
- Hybrid Digital Processing in Hydrography: the HYDROCAD Solution. T. K. Koo. **233**,97
- HYDROCAD Solution. Hybrid Digital Processing in Hydrography: the. T. K. Koo. **233**, 97
- Hydrographic Department of the Admiralty. The. (I) History I and Organization. G. B. Stigant. **88**, 52 ,
- Hydrographic Department of the Admiralty. The. (II) The Compilation of an Admiralty Chart. G. B. Stigant. **88**, 52
- Hydrographic Department of the Admiralty. The. (III) The Royal Naval Surveying Service. G. S. Ritchie. **89**, 98
- Hydrographic Survey and Services. Public Goods and the Effect of New Technology. Economic Evaluation of the. I. G. Black and M. R. John. **247**, 47
- Hydrographic Surveying. Floating Marks in. "Beacon Spar". **7**, 21
- Hydrographic Surveyor. An Early. A. G. Bazley. **58**, 154
- Hydrographic Surveyors of the Early Nineteenth Century, Some. A. H. W. Robinson, **90**, 146
- Hydrographic Surveys of the British Isles. The Early. A. H. W. Robinson. **80**, 60
- Hydrographic Year 1930, The : H. P. Douglas. **1**, 33
- Hydrographic Year The. J. A. Edgell. 1933, **13**, 419; 1938, **33**, 167
- Hydrography: the HYDROCAD Solution. Hybrid Digital Processing in. T. K. Koo. **233**, 97
- Hydrostatic Levelling in the Netherlands. A. Waalewijn. **131**, 212; **132**, 267
- Hydrostatic Levelling. An experiment in. E. X. Halliday. **152**, 94
- Hydrostatic levelling. Non-static effects in. J. Sneddon. **191**, 15
- Hydrostatic levelling. Temperature effects in. J. Sneddon. **174**, 361
- Hydrostatic levelling. The system temperature of binary liquid. J. Sneddon. **177**, 138
- Hydrostatic levelling. The temperature equivalence assumption for .J. Sneddon. **191**, 3
- Hydrostatic levelling. The wider application of. J. Sneddon. **191**, 23
- Hydrostatic model. Further generalisation of the. J. Sneddon. **182**, 362
- Hyperbolic navigation systems. A note on position fixing using. J. Mackereth. **182**, 382
- I.S.I. and why is it important? What is. J. H. Chandler. **277**, 505
- Ice. Resection on moving. J. L. W. Walton. **191**, 33
- Ice. Surveying on moving. R. H. Thomas. **157**, 322
- Identification of Deformation Models in Space and Time Domain. Chen Yong qi. **262**, 518
- Identification of Stars by Learners. G. B. Tait. **116**, 277
- Identification of Stars by Learners. J. G. Freislich. **120**, 50
- Identification Point, on Air Photographs. J.A.Eden. **79**,16
- Ifadis, I. M.* Modelling of the Atmospheric Refraction for Radio Waves. **236**, 259
- Industrial Measurements of Linear Features. A Note on. K. Kubik **237**, 323
- Ifadis, I. M.* Space to Earth Techniques: Some Considerations on the Zenith Wet Path Delay Parameters. **249**, 130
- Ifadis, I. M.* The Excess Propagation Path of Radio Waves: Study of the Influence of the Atmospheric Parameters on its Elevation Dependence. **243**, 289

*Iliffe, J. C., Griffiths, W. J. and Message, E. L.* Localised Geoid Determination for Engineering Control Surveys. **275**, 320

*Iliffe, J.C. and Dodson, A. H.* Refraction effects on precise E.D.M. observations. **226**, 181

*Illne, M., Saburi, J., Angelakis, N., Jaeger, R., Jackson, P. and Pugh. K. T.* Height of Kilimanjaro. **278**, 551

Impersonal Longitude Observations, Use of a Photo-Electric Cell for. W. D. Rushworth. **114**, 150

Implementation of the Hartebeesthoek94 Co-ordinate System in South Africa. The. R. T. Wonnacott. **274**, 243

Implicit Condition Equations in the Adjustment of Triangulation Figures. B. Goussinsky. **61**, 264

Importance of Accurate Coordination of a Known Station in Precise Relative Positioning. The. M. C. Breach. **238**, 398

Improvements in Reproduction Methods of the Ordnance Survey. **75**, 194

Improving a Horizontal Datum Without Changing the Co-ordinates. B-G. Reit. **272**, 103

Improving Cadastral Survey Controls using GPS Surveying in Singapore. Aw York Bin and Goh Pong Chai. **261**, 488

Inclined Plane, The Reduction of Angles Measured in an. P. N .Ray. **104**, 83

Indefinite Solution of a Linear System by the Principle of Least Squares, Remark on B. Cvetkov's Paper. H. Schwerdtfeger. **106**, 184

Indefinite Solution of a Linear System by the Principle of Least Squares. On the. B. Cvetkov. **100**, 272

Index to correct for theodolite dislevelment. Using an automatic. J. Jackson, **198**, 360

Interpolation. A note on contour. L. Stoch. **195**, 223

India 1930-35. Geodetic surveys in. G. Bomford. **200**, 65

India fifty years on. Geodetic surveys in. T. O. Crompton. **200**, 79

India. Geodetic Work in, -War and Post-War. B. L. Gulatee. **77**, 302

India. Recollections of a Survey Officer in. Sir C. Lewis. **55**, 2

India. Recollections of a Survey Officer in. Sir C. Lewis. **54**, 306

India. Siam and Malaya Triangulations, Connection of. B. L. Gulatee. **74**, 175

India. Survey of: Height Indicator: M. O'C. Tandy. **16**, 71

India. An integrated survey system for. V. Singh. **170**, 174

India. Cadastral surveys in. H. L. Oswal and V. Singh. **178**, 156

Indian Foot-Metre Ratio. The. and its Adoption in the Indian Geodetic System. J. C. Bhattacharji. **119**, 13

Indian Ocean. Doppler positioning in the. P. Staniczenko. **209**, 99

Indirect Methods of Distance Measurement and a new Rangefinding Device. P. V. Angus-Leppan. **135**, 19

Industrial and Engineering Applications. Current Trends in Close-range Optical 3D Measurement for. M. R. Shortis and G. S. Fraser. **242**, 188

Industrial sites. Present developments in high accuracy surveying in engineering and. A. L. Allan. **209**, 125

Inertial System for Precise Surveying Applications. Integration of GPS and an. W. Chen and P. A. Cross. **238**, 375

Inexpensive Tower for Tellurometer Traverses, An. A. S. Macdonald, **121**, 129

Influence of vibrations on the stability of geodetic signals and instruments. P. Schramm. **218**, 214

Information management -a CASLE initiative. Land. P. F. Dale. **228**, 263

Information systems for developing countries. Land. H. Dunkerley. **220**, 305

Information Systems in Trinidad and Tobago. The Status of Geographical. J. Opadeyi. **252**, 379

Infra-red source inhomogeneities. A computer method for *a priori* investigation of the electro-optical distance meter additive constant error due to. M. Rezulski and A. Zakrzewski. **208**, 63

Innovative cartography in Palestine of 1917-1918. D. Gavish and C. Biger. **208**, 81

Instability of precise geodetic instruments caused by ground vibrations. P. Schramm. **221**, 351

Institute of surveying and mapping, Sri Lanka. R. A. Goonewardene. **177**, 101

Institution. The professional surveyor and his. J. W. Wright. **182**, 347

Instruction for Engineers, Note on American Plane Surveying and Methods of. P. N. Ray. **86**, 347

Instruction Surveying, at the University. P. N. Ray. **89**, 104

Instruction, Surveying, at the University. A. Stephenson. **91**, 217

Instrument calibration. A simplified approach to accurate EDM. J. M. Rüeger. **209**, 140

Instrument Pathology. R. H. Field. **41**, 46

Instrument Problems. International Conference on Geodetic Measuring Techniques and. J. G. Olliver. **142**, 384

Instrument review. Topcon GTS-2. J. R. Hollwey. **207**, 43

Instrument. A note on centering an. A. L. Allan. **186**, 176

Instrumental Precision of Air Survey Equipment, Interpretation and Adequacy of Commonly Given Information about the. A. M. Wassef. **88**, 71

Instrumental Sources of Error in Levelling of High Precisions by Means of Automatic Levels, An Investigation of the. P. Berthon Jones. **132**, 276; **133**, 313; **134**, 346

Instrumentation 1780-1980 (Parts I and 2). The development of survey. R. C. Cox. **219**, 234; **220**, 283

Instruments caused by ground vibrations. Instability of precise geodetic. P. Schramm. **221**, 351

Instruments. Modern Geodetic. Henry Wild and Development in the Design and Construction of. Henry Wild, Jnr. **113**, 140

Instruments. Heinrich Wild's Contribution to the Development of Modern Survey. G. J. Strasser. **140**, 263

Instruments. Influence of vibrations on the stability of geodetic signals and. P. Schramm. **218**, 214

Instruments. Men and. R. C. Cox. **188**, 243

Instruments. The Application of the Gauss Method of Collimation to the Adjustment of Survey. A. V. Lawes. **37**, 429

Integrated survey system for India. V. Singh. **170**, 174

Integration of GPS and an Inertial System for Precise Surveying Applications. W. Chen and P. A. Cross. **238**, 375

Interactive survey graphics. S. K. Sharma. **187**, 202

Interferometric Methods for Geodetic Metrology. Some Investigations into. A. N. Golubev and A.M. Checkovsky. **268**, 350

Interferometric surveying. An elementary introduction to radio. W. E. Carter. **199**, 17

Interferometry; an introduction and geodetic applications. Very long baseline. V. Ashkenazi and D. McLintock **204**, 279

International Association of Geodesy. Report on Meetings, September 1954. **98**, 156

International Boundaries of Europe. The. H. S. L. Winterbotham. **58**, 133

International Conference on Geodetic Measuring Technique and Instrument Problems. J. G. Olliver. **142**, 384

International Congress for Photogrammetry. The Eleventh. D. W. Proctor and K. B. Atkinson. **151**, 44

International Congress of Photogrammetry, London, 1960. The Ninth. (D. R. Crone). **119**, 44

International Federation of Surveyors (FIG). The, J. R. Smith. **269**, 417

International Geographical Congress, July, 1964. The 20th. C. I. M. O'Brien. **135**, 7

International Map of the World (I. M. W. ) on the Millionth Scale, A Re-appraisal of the. R. A. Gardiner. **120**, 54

International Society of Photogrammetry. The. **103**, 2

International symposium on precision and speed in close range photogrammetry. York. **208**, 92

International Union of Geodesy and Geophysics, 1948. The. J. De Graaff-Hunter. **72**, 50

International Union of Geodesy and Geophysics, The XIth general Assembly of the. J. De Graaff-Hunter. **110**, 338

Interpolating from Traverse Tables to Seconds. B. Goussinsky, **49**, 134

Interpolation by Machine. G. T. M. **17**, 162

Interpolation from Traverse Tables to Correct for Single Seconds of Bearing, Note on a Method of. J. Clendinning. **4**, 157

Interpretation and Adequacy of Commonly Given Information about the Instrumental Precision of Air Survey Equipment. A. M. Wassef. **88**, 71

Interpretation of the Anglo-Russian Treaty of 1825 and Establishment of the Alaska-Canada Boundary. J. Breese. **257**, 161

Intersection applied to Verticality Checking. 3-D. E. Mok. **237**, 311

Intersection on the ellipsoid. Closed equations for the solution of. T. Vincenty. **189**, 291

Intersection Problem-A Statistical Paradox'? J. F. Bell. **149**, 295

Intersection systems. The principles of theodolite. A. L. Allan. **227**, 226

Intersection. Machine Method of. G. P. Rao. **9**, 166

Intervisibility of Points on or Just Above the Earth's Surface. H. A. L. Shewell. **66**, 174

Intervisibility of Points on the Surface of the Earth. H. A. L. Shewell. **124**, 276

Intervisible Features. G. T. M. **3**, 428

Introducing a Global Reference Frame in Surveying and Mapping. A Simple way of. B-G Reit. **264**, 87

Introduction of Doppler on Sudan geodetic work. Effect of. A. B. Salih. **211**, 221

Inverse Projection Algorithm with Particular Reference to the Syrian Stereographic Projection . Enhancement of. A. C. Ruffhead. **270**, 501

Investigation of Systems of Constrained Centring. An. P. Berthon Jones. **127**, 22

Investigation of the Instrumental Sources of Error in Levelling of High Precision by Means of Automatic Levels. An. P. Berthon Jones. **132**, 276; **133**, 313; **134**, 346

Iraq, Early Measurements of Arc in: Major K. M. Papworth. **20**, 334

Ireland. Ordnance Survey of Northern Ireland 1:50,000 map series of. Ordnance Survey of Northern Ireland. **193**, 99

Irish 1:50,000 first series 1978 sheet 9- Ballymena, Larne-a review. C. Tomlinson. **193**, 101

Irish Free State, The Work of the Ordnance Survey of: Capt. G. H. Mew. **3**, 131

Irrigation Projects in the Union of South Africa. N. B. Favell. **67**, 205

Islamic Astronomy, A Note on. W. A. Garstin. **85**, 306

Isobaric Surface in Kenya. An investigation into the nature of the. J. A. Dixon. **143**, 19

Isocurve. Equations for the. B. R. Bowring. **241**, 159

Isometric Latitude by Numerical Integration. Transformation of Geodetic and. H. Lichtenegger. **236**, 294

Isometric Latitude. An Alternative Formula for Finding the Geodetic Latitude from the. A. Kaya. **253**, 450

Isometric Latitude. New Ideas on. B. R. Bowring. **236**, 270

Isometric latitude. The formula for finding the ordinary latitude from the. J. W. R. Day. **230**, 383

Isostatic Gravity and Co-Geoidal Effects Based on Airy-Heiskanen and Pratt-Hayford Hypotheses Using 1° Averaged Topographic Masses on the Idealised Earth. A Short Note on the Simultaneous Determination of. J. C. Bhattacharji. **253**, 415

Isostatic Reduction on Airy-Heiskanen Hypothesis using 1° Averaged Heights on Idealised Earth. J. C. Bhattacharji. **241**, 148

Isotropy. Resection in 2-D. Optimisation under. A. Fotiou. **244**, 321

Israel. Vertical Movements of Levelling Bench Marks in Northern. N. Ananga. **239**, 25