

SURVEY REVIEW CUMULATIVE INDEX

Volumes 1-35

A-C

- 1780-1980. The development of survey instrumentation. R. C. Cox. **219**, 234; **220**, 283
1917-1918. Innovative cartography in Palestine of. D. Gavish and C. Biger. **208**, 81
1946-1983. A personal tribute to the Directorate of Overseas Surveys. A. S. Macdonald. **210**, 169
1982. Doppler campaign results. Britdoc. B. Hogarth, S. A. Crane and V. Ashkenazi. **210**, 169
1983. Cambridge Conference. **213**, 333
1986. The Definition and Adjustment of the Fiji Geodetic Datum. J. Hannah and J. Maseyk. **231**, 33
250 Years of Military Survey: 1747-1997. A. Gordon. **266**, 247
3-D Intersection applied to Verticality Checking. E. Mok. **237**, 311
28 Be V Synchrotron in the European Organization for Nuclear Research, Precision Survey of the. A. E. Decae. **121**, 98; **122**, 146; **123**, 194
30th. Meridian. The African Arc of the. H. F. Rainsford. **82**, 159
50 Years Ago, A Field Survey Association Outing. Jotting. **230**, 385
50 Years Ago, Air survey and colonial cadastral mapping. Dr N. Wolff. **227**, 246
50 Years Ago, Conferencing. H. St. J. L. Winterbotham. **223**, 28
50 Years Ago, Correspondence. M. Hotine. **225**, 143
50 Years Ago, Glimpses of the great unknown. Jotting. **228**, 304
50 Years Ago, S. M. Bartlett. Jotting. **226**, 205
50 Years Ago, The eternal triangle or an Empire Surveyor's romance. Jotting. **224**, 77
50 Years Ago, The Town Plans. H. St. J. L. Winterbotham. **229**, 357
50 Years Ago, A fifty-years retrospect. Sir Charles Close. **204**, 299; **213**, 310
50 Years Ago, 'Echo sounding'. P. S. E. Maxwell. **219**, 274
50 Years Ago, Laplace azimuths. M. Hotine. **201**, 136; **202**, 201
50 Years Ago, Motto of The Australian Surveyor. Notice. **203**, 235
50 Years Ago, Survey in the Great War. M. N. Macleod. **205**, 336
50 Years Ago, The origin of . Editor's note, **206**, 392
60 Years Ago, J. R. Smith. **246**, 490. **250**, 249; **254**, 512. **258**, 281; **262**, 535. **258**, 281; **262**, 535. **266**, 245; **270**, 528. **274**, 286, **278**, 568
A Checking Technique for High Precision GPS Antennas. A. K. Chong and B. B. Kam. **277**, 464
A computer method for *a priori* investigation of the electro-optical distance meter additive constant error due to infra-red source in- homogeneities. M. Rezulski and A. Zakrzewski. **208**, 63
A Design for Triaxial Number Facilities on Calculator or Computer. B. R. Bowring. **239**, 34
A Geocentric Reference System in Taiwan. C.C. Chang and C. L. Tseng. **273**, 195
A geodetic terrestrial and space network. V. Ashkenazi, W. J. Preiss and B. Anderson. **209**, 117

- A High Resolution Gravimetric Geoid of the Eastern Africa Region. M. K. Gachari and J. G. Olliver. **269**, 421
- A method of overcoming some problems of ill-conditioned matrices in rigorous re-adjustment of traverse networks. U. Ethrog. **215**, 33
- A Methodology for Benchmarking Real Time Kinematic GPS. S. J. Edwards, P. A. Cross, J. B. Barnes and D. Bétaille. **273**, 163
- A Minimum Elastic Deformation Energy Projection (Parts 1 and 2). M. J. Sevilla and J. A. Malpica. **271**, 56; **272**, 109
- A Model for a Four-Dimensional Regional Geodetic Reference Datum. F. W. O. Aduol. **264**, 91
- A Model for the Establishment of an Integrated Regional Geodetic Datum. F. W. O. Aduol. **250**, 213
- A Model for the Transformation between Satellite and Terrestrial Networks in Hong Kong. E. Mok. **244**, 344
- A Model for the Transformation of Satellite Vectors to the Plane of the Map. I. Revhaug. **274**, 277
- A New Approach to the problem of atmospheric correction in long distance E.D.M. measurement. J. T. Pinto. **224**, 69
- A New Approach to the Optimal Second-Order Design of Geodetic Networks. Shanlong Kuang. **243**, 279
- A New Geodetic Heighting Strategy for Great Britain. R. R. Christie. **252**, 328
- A New Gravimetric Determination of the Geoid of the British Isles. W. E. Featherstone and J. G. Olliver. **254**, 464
- A New Height Control for Peninsular Malaysia. S. Ses and J. R. Gilliland. **265**, 151
- A New Method for assessing the atmospheric refractivity correction in optical EDM. K. D. Froome. **216**, 89
- A New Method for GPS Phase Base Ambiguity Resolution by Combined Phase and Code Observables. L. E. Sjoberg. **268**, 363
- A New Method for Localisation of Gross Errors. Weiping Sun. **252**, 344
- A Note on Calculating the Parameters of Circular Curves. K. S. Li. **249**, 175
- A Note on Industrial Measurements of Linear Features. K. Kubik. **237**, 323
- A note on the calculation of the $\tilde{\chi}^2$ and F statistics. K. S. Milford. **210**, 179
- A note on the status of self-reducing tacheometers. J. Sneddon. **205**, 321
- A personal tribute to the Directorate of Overseas Surveys 1946-1983. A. S. Macdonald. **211**, 193
- A Practical GPS Network Adjustment Method. Jiexian Wang and Hüseyin Bâki Iz. **272**, 127
- A Preliminary Assessment of the Tellurometer MA 200 for Vibrational Measurement of Flexible Structures. T. J. M. Kennie, C. M. Howard and S. P. Horkan. **232**, 67
- A priori* and *a posteriori* analysis, or game and guess. M. A. R. Cooper and P. A. Cross. (\ddagger). **201**, 137; **204**, 303; **206**, 397
- A priori* investigation of the electro-optical distance meter additive constant error due to infra-red source inhomogeneities. A computer method for. M. Resulski and A. Zakrzewski. **208**, 63

- A Problem in the Application of the Error Ellipsoid. Lu Baixiang and Cen Minsyi. **250**, 239
- A project for upgrading the cadastral system in Thailand (Parts I and 2) P. V. Angus-Leppan and I. P. Williamson. **215**, 2; **216**, 63
- A Projection of the World Coastline. B. R. Bowring. **242**, 226
- A Proposal for a Laboratory Method to Test Digital Theodolites. D. Stathas. **262**, 553
- A Proposed Method for the Reduction of Long Spatial Distances to a Reference Ellipsoid. A. Fotiou. **265**, 183
- A Rational Method to Calculate the Geometry of Map Areas. Abdulla A. Sabtan. **258**, 270
- A Real-Time Solution for GPS Measured Distances without Cycle Slips. Liu Iiyu. **247**, 31
- A refined chord-arc method of calculating geodesics. J. W. R. Day. **226**, 191
- A report on the Nigerian geodetic levelling. M. B. Ebong. **213**, 323
- A rigorous solution for azimuth, latitude and longitude from direction and time. O. C. Ezenwere. **201**, 141
- A Short Note on the Simultaneous Determination of Isostatic Gravity and Co-Geoidal Effects Based on Airy-Heiskanen and Pratt-Hayford Hypotheses Using 1° Averaged Topographic Masses on the Idealised Earth . J. C. Bhattacharji. **253**, 405
- A Simple Adjustment Procedure for Local GPS Networks. J. G. Olliver. **274**, 218
- A Simple Way of Introducing a Global Reference Frame in Surveying and Mapping. B-G Reit. **264**, 87
- A simplified approach to accurate E.D.M. instrument calibration. E. N. Emenike. **204**, 272
- A Statistical Analysis of Real Time Long Range GPS Measurements via Cellular Phone Communications. A. K. Chong and M. Dewhirst. **266**, 212
- A Three-Dimensional Digital Elevation Data Compression Procedure. I. M. Gar Al-nabi. **240**, 99
- A Three-Dimensional Geodetic Network Model for the Analysis of Localised Earth Deformation. S. M. Musyoka and F. W. O. Aduol. **263**, 41
- A zone to zone transformation method for the Universal Transverse Mercator Grid (Clarke 1880 spheroid). J. G. Olliver. **199**, 36
- Aarons, J.* A Philosophy of Errors **116**, 281
- Abdalla, K. A. and Fashir, H. H.* Doppler Geoid in Africa. **241**, 175
- Abdalla, K. A. Salih, A. B. and Fashir, H. H.* Doppler Geoid in Sudan. **237**, 319
- Abdulla A. Sabtan.* A Rational Method to Calculate the Geometry of Map Areas. **258**, 270
- Absolute Laser Interferometric Distance Measurement. A. N. Golubev. **248**, 109
- Abstracting Chronograph Times. A. L. Allan. **115**, 237
- Account of the Survey Carried Out by the Falkland Islands Dependencies Aerial Survey Expedition, 1955-56, 1956-57, An. A. D. Bancroft. **112**, 50; **113**, 98
- Accuracy and precision of the Kern Mekometer ME 3000. On the. J. M. Rüeger. **214**, 339
- Accuracy and Precision of Volumes computed from Triangulated Irregular Networks. M. R. Shortis and P. G. Joyce. **245**, 377
- Accuracy of Astronomical Observations for Position, The. R. W. Pring. **96**, 70

- Accuracy of Circum-elongation Observations for Azimuth. B. P. Opie. **137**, 107; **138**, 171
- Accuracy of geodetic latitude and height equations. The, B. R. Bowring. **218**, 202
- Accuracy of Subtense Bar Measurements in Relation to the Number of observations of the Subtended Angle. R. G. Bird, **148**, 256
- Accuracy of Surveying Measurements, Microclimatology and its Effects on the. D. O'Connor. **118**, 364
- Accuracy of Topographical Maps. The. D. R. Crone. **88**, 64
- Accuracy, Testing a Theodolite for. E. W. Taylor. **40**, 69
- Accurate measurement by Geodimeter: a practical application of the differential technique. R. E. McLean. **153**, 123
- Accurate Measurement of a Short Line by Geodimeter Model 6. A. L. Allan. **145**, 98
- Accurate Measurement of Distances by High-Frequency Light Variations, The Geodimeter. An Instrument for the. **85**, 290; **86**, 363
- Achievements of Sir George Everest in Geodesy. The. A. Cook. **238**, 368
- Achilli, V. and Baldi, P.* Computation of local anomalies of the vertical's deflection in geodetic networks. **205**, 327
- Achilli, V. et al.* Astronomic determinations of deflection of the vertical. **208**, 75
- Acrylic reflectors with electro-optical distance measuring equipment. The use of. P. Done and B. D. F. Methley. **195**, 215
- Adams, L. P.* Astronomical Position and Azimuth by Horizontal Directions. **148**, 242
- Adams, L. P.* Astronomical position and azimuth by horizontal directions: A rigorous solution. **159**, 2
- Adams, L. P.* Back to Basics(13). **271**, 41
- Adaptation of the Plane Mirror for use in Geodimeter Work. R. B. McVilly. **142**, 359
- Adequacy of Commonly Given Information about the Instrumental Precision of Air Survey Equipment. Interpretation and. A. M. Wassef. **88**, 71
- Adjudication-A Way of Coping with Incomplete Information in Developing Countries. N. O. Haldrup. **262**, 504
- Adjusted Sequences. Residual Errors in. R. S. Mather. **138**, 175
- Adjusting Misclosures. An Improvement upon Bowditch's Method of. J. Day. **238**, 396
- Adjusting relative lateration networks. Methods of. T. Vincenty. **193**, 103
- Adjustment and Trilateration. Semi-Graphic,. B. Chiat. **130**, 157
- Adjustment and Weighting of Dissimilar Quantities, The. H. Biesheuvel. **126**, 347
- Adjustment computations. Weights for geopotential numbers in. S. Subramaniam. **202**, 244
- Adjustment for a simple case of trilateration. A simple. K. D. Robertson. **196**, 264
- Adjustment for the Nigerian geodetic network. An approach to sequential. N. N. Ndukwe. **228**, 279
- Adjustment in height controlled space. Differential relationships with applications to. B. R. Bowring. **210**, 157
- Adjustment Method. A Practical GPS Network. Jiexian Wang and Hüseyin Bâki Iz. **272**, 127
- Adjustment methods. Absolute traverse distortions of some. G. Obenson. **177**, 130
- Adjustment of Simple Figures D. R. Hendrikz **33**, 137; **34**, 198; **35**, 279
- Adjustment of Traverses, Some Notes on the. B. Goussinsky. **60**, 227

- Adjustment of Trigonometrical Levels and the Evaluation of the Coefficient of Refraction. A. J. Morley **23**, 16
- Adjustment of a Block of Aerial Triangulation Evaluated with the Wild A5. The. H. H. Brazier and V. A. Williams. **95**, 22
- Adjustment of a Doubly-Braced Quadrilateral of Measured Lines. A Graphical Sidelight on the. G. J. Thornton-Smith. **124**, 259
- Adjustment of a geodetic levelling network. The Chebyshev. M. B. Ebong. **220**, 315
- Adjustment of a Network of Triangulation. A New Method for the. G. B. Lauf. **79**, 19
- Adjustment of a second-order network. M. A. R. Cooper and F. J. Leahy. **187**, 224
- Adjustment of a System of Trigonometrical Chains, The. A. J. Morley. **33**, 142
- Adjustment of a Traverse by Relaxation. H. A. Warren. **34**, 228
- Adjustment of a traverse network. H. Papo and A. Peled. **184**, 82
- Adjustment of a traverse network. Processing and. U. Ethrog and B. Shmutter. **203**, 236
- Adjustment of a Trilateration Figure by Frame Structure Analogue. Leung Kui-Wai. **123**, 218
- Adjustment of a Trilateration Figure by Frame Structure Analogue. O. B. Sheynin. **127**, 55
- Adjustment of a Trilateration Network. A General Theory for the. G. J . Thornton-Smith. **130**, 173
- Adjustment of Aerial Triangulation, A Simplified Analytical Method for the. R. J. Owen. **91**, 227
- Adjustment of Air Photographs Covering Narrow Land Areas and Coast Lines, The Application of Transformation Factors to. W. E. Browne. **73**, 119
- Adjustment of Arbitrary Inconsistent Linear Equations, On the Least Squares. Dr. B. Cvetkov, **128**, 89
- Adjustment of Dissimilar Quantities. Least Squares. G. J. Thornton-Smith. **136**, 68
- Adjustment of First Order Levelling Network. The. J. H. Cole. **100**, 265
- Adjustment of free networks. A review of the. W. Welsch. **194**, 167
- Adjustment of information digitized from maps. Y. Doytsher and B. Shmutter. **211**, 211
- Adjustment of Level Net by Successive Approximations and by Electrical Analogy .Hsuan-Loh Su. **95**, 8; **96**, 58
- Adjustment of Levels by Relaxation Methods. H. A. Warren **33**, 163
- Adjustment of Local Geodetic Networks in Engineering Geodesy. Three-Dimensional. T. Ninkov. **234**, 169
- Adjustment of Measured Angles and Measured Lengths in a Doubly-Braced Quadrilateral. G. J. Thornton-Smith. **131**, 236
- Adjustment of networks. Least squares. C. Bellamy and G. Watterson. **156**, 250
- Adjustment of plane trilateration nets with fixed points. N. F. Danial. **197**, 313
- Adjustment of Precision Metrology Networks in Three-Dimension. Xiaoli Ding and R. Coleman. **259**, 305
- Adjustment of Schools. Distorting a Network to fit control points: An Alternative Expression for the. J. A. Weightman. **86**, 372
- Adjustment of Strip Plots. The. D. R. Crone. **72**, 82
- Adjustment of Survey Errors. Formulae for the. W. Wright. **89**, 134

- Adjustment of the Boundary. Triangulation of South Africa. D. R. Hendrikz. **29**, 430; **30**, 470
- Adjustment of the Braced Geodetic Quadrilateral by Least Squares. A. M. Sabbah. **140**, 255
- Adjustment of the Fiji Geodetic Data -1986. The Definition and. J. Hannah and J. Maseyk. **231**, 33
- Adjustment of the Optical Plummet of the Wild T.2. L. Berlin. **142**, 356
- Adjustment of Traverse Nets. The. H. Biesheuvel. **79**, 24
- Adjustment of Triangulation Figures. Implicit Condition Equations in the. B. Goussinsky. **61**, 264
- Adjustment of Trilateration using length ratios. P. V. Angus-Leppan. **166**, 355
- Adjustment of Trilateration, Notes on the. A. Tárczy-Hornoch. **134**, 363; **135**, 14
- Adjustment On the Orthomorphic Property of Schols. R. Sacks. **58**, 152
- Adjustment Procedure for Local GPS Networks. A Simple. J. G. Olliver. **274**, 218
- Adjustment The Schols. *See* Evaluating the Distortion Involved in the Readjustment of a Network. **89**, 130
- Adjustment using the generalised least-square method. Station. U. Ethrog. **202**, 180
- Adjustment with inner constraints in small control, networks. Tri-dimensional. A. G. Camacho. **230**, 371
- Adjustment with special emphasis on computational efficiency. Unbiased estimation of variance-covariance components in condition. L. E. Sjoberg. **215**, 15
- Adjustment, Current, and Potential Adjustment Methods Applied to the Adjustment of Level Nets. Hsuan-Loh Su. **108**, 271
- Adjustment, Horizontal Angles in Triangulation - Some Practical Suggestions regarding their Observation and. J. H. Cole. **87**, 36
- Adjustment, Least Squares of a Trigonometrical Net. The Number of Conditional Equations required for the, B. Cvetkov. **103**, 24
- Adjustment, Least Squares of Level Nets, Current Adjustment and Potential Adjustment Methods Applied to the. Hsuan-Loh Su. **108**, 271
- Adjustment, Least Squares. of Geodetic Figures with Observed Angles and Sides. The. B. T. Murphy. **108**, 262
- Adjustment, Least Squares, of Geodetic Traverses. The. B. T . Murphy. **112**, 66
- Adjustment, Least Squares, of Linear Dimensions in a Geodetic Quadrilateral, Remarks on the. A. Tárczy-Hornoch, **112**, 22
- Adjustment. Least Squares. of Linear Dimensions in a Geodetic Quadrilateral. The Selection of Pole and Condition Equations in the. B. T. Murphy. **116**, 266
- Adjustment, Least Squares, of Linear Dimensions of a Geodetic Quadrilateral. B. T. Murphy and G. J .Thornton-Smith. **106**,175
- Adjustment, of Minor Traverse Networks. A Note on the. R. Gwilliam. **114**, 182
- Adjustment, of Semi-Precise Traverses. The. B. Chiat. **115**, 230
- Adjustment, of Traverse Networks. H. C. Brown. **120**, 84
- Adjustment, Traverse. Why not Least Squares ? H. L. P. Jolly **28**, 339
- Adjustment, Triangulation. Electric Analogue for. Hsuan-Loh Su. **111**, 30; **114**, 173
- Adjustment, Trilateration. The Use of concluded Lengths in. B. T . Murphy, **118**, 369
- Adjustment. Altimetric Network. C. W. B. King. **142**, 366

- Adjustment. An Empiric Example to Propose Working Formulae for the Constrained.
 Rongshin Hsu. **271**, 33
- Adjustment. Convergence of the Variance of Unit Weight in a Levelling Network.
 Rongshin Hsu. **260**, 404
- Adjustment. Least Squares. of Dissimilar Quantities. J. E. Lilly. **121**, 120
- Adjustment. Least Squares. of Linear Dimensions in a Geodetic Quadrilateral. Further
 Remarks on. A. Tárczy-Hornoch. **122**, 178
- Adjustment. The Least Squares. of Geodetic Figures in which both Angles and Sides
 have been measured and of Geodetic Traverses on the Transverse Mercator
 Projection. E. T. Homewood. **124**, 248; **125**, 290
- Adjustment. Triangulation. by Directions. G. R. Dyus. **123**, 226
- Adjustment. of a quadrilateral. J. C. Cimiotti. **162**, 170
- Adjustment. Unbiased free net. E. Grafarend and B. Schaffrin. **171**, 200
- Adjustments in levelling networks. Weights for least squares. M. B. Ebong. **226**, 175
- Adjustments of Angles and Distances. Combined. H. F. Rainsford. **150**, 348
 Adjustment of Australia. The Geodetic. A. G. Bomford. **144**, 52
- Adjustments of linear measurements. The scale problem in. T. Vincenty. **154**, 164
- Adjustments of Triangulation, Least Squares. H. Biesheuvel. **84**, 274
- Adjustments of Triangulation, Least Squares. Directions versus Angles. H. F.
 Rainsford. **87**, 31
- Adjustments of Triangulation, Least-Square. Directions versus Angles. H. F. Rainsford.
78, 353
- Adjustments of Triangulation. Directions versus Angles. Least Squares, T. Vincenty. **129**,
 139
- Adjustments of Trilateration by using Auxiliary Systems of Co-ordinates. Further
 Simplification in the. A. Tárczy-Hornoch. **144**, 80
- Adjustments, Triangulation. The Reduction of Angles and Station. H. F. Rainsford.
67, 209
- Adjustments. The Use of Geographic and Map Grid Co-ordinate Systems for Geodetic
 Network. M. R. Shortis and J. W. Seager. **254**, 495
- Adjustments. Variance Component Estimation for Recursive Least Squares. Hui Qin,
 Xiaoli Ding, Minghai Jia and Jason Chao. **272**, 117
- Adler, R and Shmutter, B.* Computer simulation as a basis for investigating major
 geodetic networks. **160**, 68
- Adler, R. et al.* The establishment of standards for lower order horizontal control. **194**,
 152
- Administration report of the surveyor general {Ceylon) for 1967-68. **159**, 48
- Admiralty Charts. Notes on Water Lines on. A. L. Jackson. **22**, 459
- Admiralty. The Hydrographic Department of the. (I) History and Organization. G. B.
 Stigant. **87**, 2
- Admiralty. The Hydrographic Department of the. (II) The Compilation of an
 Admiralty Chart. G. B. Stigant. **88**, 52
- Admiralty. The Hydrographic Department of the. (III) The Royal Naval Surveying
 Service. G. S. Ritchie. **89**, 98
- Aduol, F. W. O.* A Model for a Four-Dimensional Regional Geodetic Reference Datum.
264, 91

- Aduol, F. W. O.* A Model for the Establishment of an Integrated Regional Geodetic Datum. **250**, 213
- Aduol, F. W. O. and Musyoka, S. M.* A Three-Dimensional Geodetic Network Model for the Analysis of Localised Earth Deformation. **263**, 41
- Aduol, F. W. O.* Robust Geodetic Parameter Estimation through Iterative Weighting. **252**, 359
- Aduol, F. W. O. and Awange, J. L.* An Evaluation of Some Robust Estimation Techniques in the Estimation of Geodetic Parameters. **273**, 146
- Aegean and Surrounding Areas. Equidistant Ordering of Large Earthquakes in the. Xu-Dao-Yi, G. Asteriadis and D. Arabelos. **273**, 204
- Aerial Camera Calibration. D. R. Crone. **27**, 272
- Aerial Reconnaissance for Triangulation. J. L. Rannie. **53**, 266
- Aerial Survey Expedition, 1955-56, 1956-57, Falkland Islands Dependencies. An Account of the Survey Carried Out by the. A. D. Bancroft. **112**, 50; **113**, 98
- Aerial Surveying, The Projective Transformation in. T. Smith. **8**, 137, **10**, 206
- Aerial Triangulation, A Simplified Analytical Method for the Adjustment of. R. J. Owen, **91**, 227
- Aerodrome Obstruction Surveys. F. C. Petts and H. Käding. **97**, 98
- Africa. A note on geoidal heights in Southern. C. L. Merry, **189**, 303
- Africa. Doppler Geoid in. H. H. Fashir and K. A. Abdalla. **241**, 175
- Africa from GEM 9 potential coefficients and degree gravity anomalies. Geoidal heights for. G. Obenson. **218**, 207
- Africa. Radar-Controlled Air Survey Photographic Operations in, 1946-1952. S. Hellings. **92**, 254; **93**, 303
- Africa. South and East, and the International Union of Geodesy and Geophysics. H. St J. L. Winterbotham. **26**, 230
- Africa. The Centre of. Sir C. F. Arden-Close. **40**, 66
- African Arc II. Marks and Beacons. M. Hotine. **14**, 472
- African Arc of the 30th Meridian. The. H. F. Rainsford. **82**, 159
- African Arc. The East. The Lay-out of: M. Hotine. **12**, 357
- African Foot. The Two Metres. The Story of an. G. T. M. **32**, 96
- African Object-lesson. An. The Surveyor and the Politician. H. B. Thomas. **7**, 28
- African Pioneer. An. George Ekem Ferguson. Kweku Asante. **8** 102
- African Surveyors in Nigeria. The Training of. **52**, 254
- African Surveyors in Uganda. Training. P. C. Bindon. **80**, 79
- Africans for Survey in Northern Rhodesia, The Training of: D. S. Cleak. **21**, 413
- Aga 700 Geodimeter-principles and accuracies. Automatic angle measurement in the. C. Rawlinson. **180**, 249
- Aga Geodimeter 12. A. Allan. **178**, 191
- Aga Geodimeter model 6BL. An initial evaluation of the W. Schofield. **184**, 81
- Agajelu, S. I.* On conformal representation of geodetic positions in Nigeria. **223**, 3
- Agajelu, S. I.* The Geoidal Heights of Nigeria. **235**, 229
- Agatza-Baladimou, A. M. and Mitsakaki, C.* Deformation studies of the Mornos Dam area. **217**, 151

- Agatza-Balodimou, A. M. and Mitsakaki, C.* Effect of Systematic Errors due to the Non-coincidence of the Reference Surface with the Geoid for the Hellenic Region via Deformation Analysis. **232**, 51
- Agnard, J. P. Gagnon, P. A. and Nolette, C.* The DVP. A Tool for Extending the Field of the Surveyor's Practice. **249**, 159
- Agumya, A., Sinon, R. and Williamson, I. P.* .Cadastral Reform: Lessons from a Small Island State. **267**, 311
- Ahmed, F. A.* Optimization techniques in curved area calculation. **210**, 163
- Ahmed, F. H.* Non-linear Contouring using Crucial Ground Points. **231**, 15
- Allan, A. L. and Hudson, C.* The figure of the earth. **225**, 120
- Air Maps. W. G. V. Balchin. **66**, 138
- Air Photographs by the Ordnance Survey. The Use of. R. A. Gardiner. **76**, 242
- Air Photographs Fixed by Remote Radar Control. Surveying from. C. A. Hart. **64**, 71
- Air Photographs for Cadastral Purposes in Zanzibar. Direct Use of. Sir Ernest M. Dowson. **63**, 2
- Air Photographs in the Directorate of Overseas Surveys. Some Recent Developments in Hill Shading from. **127**, 3
- Air Photographs, A Projection Method for Mapping from. H. G. Fourcade. **35**, 270
- Air Photographs, Point Identification on. J. A. Eden. **79**, 16
- Air Photographs, Rectification of. M. N. MacLeod. **48**, 59
- Air Photographs, The Errors in a Radial Line Plot of. D. R. Crone. **71**, 306
- Air Photographs, The Rectification of. H. G. Fourcade. **19**, 272
- Air Photographs, Uncontrolled Mapping from. R. W. Pring. **84**, 278
- Air Photography, Departmental, III Nigeria. R. W. Pring. **78**, 348
- Air Photos, Direct Use of for Cadastral Purposes in Zanzibar. L. G. Chambers. **71**, 2
- Air Speed, Measuring the World Record. Bert Watts. **105**, 127
- Air Survey and Colonial Cadastral Mapping. N. Wolff. **27**, 281
- Air Survey and the Photograph. J. A. Eden. **8**, 105
- Air Survey. Cadastral. F. J. Salmon. **28**, 334
- Air Survey Equipment, Interpretation and Adequacy of Commonly Given information about the Instrumental Precision of. A. M. Wassem. **88**, 71
- Air Survey in Nigeria. J. F. A. Lees. **71**, 13
- Air Survey Photographic Operations in Africa, 1946-1952. Radar Controlled. S. Hellings. **92**, 254; **93**, 303
- Air Survey. The Adjustment of Strip Plots. D. R. Crone. **72**, 82
- Air Survey. The Rand Method of Heighting from Near Vertical Photographs. D. R. Crone. **82**, 163; **83**, 205
- Air Surveys at Large Scales. Computation of Ground Control for. C. W. B. King. **113**, 128
- Air Triangulation in the Ordnance Survey. Note on Thompson's Analysis of the Improvement Resulting from the Use of a Reseau in. Dr. A. W. Wassem. **81**, 138
- Air Triangulation. Local Errors in Relation to Analytical Methods of. A. M. Wassem. **84**, 252
- Airborne 3-D Profilometer. H Haggen, P.Pontinen, T. Manninen, I. Peräläinen, J. Pesonen and M. Rantasuo. **259**, 325

- Air-Photo Survey. Height Control in. J. W. Loxton. **41**, 148
Air-Photographs. Some Factors in Determining Heights from. D. R. Crone. **10**, 221
Air-Survey Camera. The Seven-lens. E. H. Thompson. **26**, 216; **27**, 263
Airy-Heiskanen Hypothesis using 1° Averaged heights on Idealised Earth. Isostatic Reduction on. J. C. Bhattacharji. **241**, 148
Airy's Projection by Balance of Errors. The Scale Errors of. with special Reference to the British Isles. H. L. P. Jolly. **15**, 16
Ajakaiye, D. E. and Osazuwa, I. B. The use of the graphic chart for the analysis of observations in a gravimetric network. **221**, 345
Ajakaiye, D. E. and Verheijen, P. J. T. A gravimeter calibration line. Nigeria. **190**, 373
Alanko, G. and Rüegeger, J. M. Building Monitoring with a Surveying Robot (Part 1). **257**, 138; (Part 2). **258**, 218
Alberda, J. E. On University Education for Surveyors. **234**, 160
Alberta. The Metis Settlements Land Registry in. A. C. McEwen. **256**, 77
Alexander Land, Antarctica, The Compilation of a Reconnaissance Map of from Trimetrogon Air Photographs. D. J. Searle. **119**, 2
Alexander Ross Clarke: A Great British Geodesist. Sir C. F. Arden-Close. **49**, 107
Alexander, J. B. Trials of a Surveyor-Modern Version. **87**, 39
Alexander, J. E. The Year 1932 in Nyasaland Protectorate. **9**, 179
Algorithms for calculation of scale factors for Transverse Mercator systems. Simple. H. W. Stoughton. **206**, 386
Alia, K. A. The adjustment of trilateration networks observed in pairs, **181**, 328
Alidade for use with electro-optical distance measurement. A. L. Allan. **185**, 119
Alignment Nomogram for the Sag Correction of a Steel Surveying Tape. A Multiple. R. Sacks. **68**, 261
Allan, A. L. A note on centering an instrument. **186**, 176
Allan, A. L. A proof of the barycentric resection formulae. **177**, 106
Allan, A. L. A Simple Check on the Computation of the Sum of the Squares of the Residuals of Observations of a Single Quantity. **124**, 279
Allan, A. L. Abstracting Chronograph Times. **115**, 237
Allan, A. L. An alidade for use with electro-optical distance measurement. **185**, 119
Allan, A. L. and Atkinson, N. Back to Basics. (14).**272**, 134; (15).**273**, 187; (16).**274**, 265; (17) **275**, 356; (18) **276**, 412; (19) **277**, 499; (20).**278**, 571.
Allan, A. L. and Blank, L. D. Henry VII's Chapel at Westminster Abbey: Photogrammetric Recording and Survey Control. **270**, 531
Allan, A. L. and Hollwey, J. R. Two Methods of forming Condition Equations for Linear Measurements. **136**, 77
Allan, A. L. and Wright, J. W. The Survey Review, its history, content and management. **202**, 195
Allan, A. L. Back to Basics (1). **259**, 339; (2). **260**, 416; (3). **261**, 454; (4). **262**, 529; (5). **263**, 57; (9). **267**, 307; (10) **268**, 373
Allan, A. L. Forty Years of EDM. **269**, 455
Allan, A. L. Mounting a theodolite on a Geodimeter Model Six. **156**, 265
Allan, A. L. Present developments in high accuracy surveying in engineering and industrial sites. **209**, 125
Allan, A. L. Program cards for the small hand calculator, **187**, 233

- Allan, A. L.* The Accurate Measurement of a Short Line by Geodimeter, Model 6. **145**, 98
- Allan, A. L.* The Aga Geodimeter. **12**, **178**, 191
- Allan, A. L.* The Application of Tape and Disc Recording Machines in Field Astronomy and an Observational Method arising there-from. **133**, 305
- Allan, A. L.* The error ellipse. A further note. **166**, 387
- Allan, A. L.* The plane mirror in electro-optical distance measurement. **188**, 268
- Allan, A. L.* The principles of theodolite intersection systems. **227**, 226
- Allan, A. L.* Towards an Integrated and Imaginative Approach to Practical Exercises in the Education of Geodetic Engineer and Surveyor. **234**, 177
- Allman, J. S. and Hoar, G. J.* Optimisation of geodetic networks. **167**, 11
- Allman, J. S.* Angles and Directions. **139**, 219
- Almucantar Observations for Position, Azimuth Controlled. G. J. Thornton-Smith. **109**, 301
- Almucantar Position Lines. G. J. Thornton-Smith. **88**, 77
- Almucantar. An Azimuth Observation in the. G. J. Thornton-Smith. **94**, 362
- Altimeter Heighting using Wessex and Whirlwind Helicopters. R. P. V. Newberry. **149**, 290
- Altimeters. Wallace and Tiernan. Field Tests with, near Moshi, Tanganyika. P. Hartog. **113**, 117
- Altimetric Network Adjustment. C. W. B. King. **142**, 366
- Altimetry, Terrestrial. Notes on. D. R. Crone. **122**, 160
- Altitude and azimuth observations. Simultaneous position lines from. W. A. Stepec. **174**, 347
- Altitude and azimuth of the sun. Position and azimuth from the time rate of change of. G. G. Bennett. **198**, 373
- Altitude for Time. Notes on the Observation of. G. T. M.. **11**, 294
- Altitude on Traverse Errors, The Effect of. J. E. Jackson. **12**, 330
- Altitudes of Points seen on the Horizontal Wire of a Theodolite. W. V. Shearer. **23**, 38
- Altitudes. Circum-meridian, Note on the Reduction of. L. P. Lee. **78**, 366
- Altitudes. Circum-Meridian. Prof. A. Thorn. **106**, 170
- Altitudes. A method of determining latitude and azimuth simultaneously by star. G. J. Husti. **184**, 66
- American Plane Surveying and Methods of Instruction for Engineers. Note on. P. N. Ray. **86**, 347
- Amsterdam Ordnance Datum (NAP). The. A. Waalewijn. **226**, 197
- An Alternative Formula for Finding the Geodetic Latitude from the Isometric Latitude. A. Kaya. **253**, 450
- An Analysis of a Ten-year Survey of the Geodetic Network at the Seismic Area of Lake Volvi in Northern Greece for detecting Real Crustal Movements. G. Asteriadis and H. Schwan. **245**, 390
- An Approach to sequential adjustment for the Nigerian geodetic network. N. N. Ndukwe. **228**, 279
- An elementary introduction to radio interferometric surveying. W. E. Carter. **199**, 17
- An Empiric Example to Propose Working Formulae for the Constrained Adjustment.

- Rongshin Hsu. **271**, 33
- An empirical method for refraction modelling in trigonometrical heighting. V. Ashkenazi and P. D. Howard. **213**, 311
- An Evaluation of Some Robust Estimation Techniques in Estimation of Geodetic Parameters. J. L. Awange and F. W. O. Aduol. **273**, 146
- An Evaluation of spacialab metric camera imagery of Sudan. L. J. Rackham. **224**, 55
- An Evaluation Study of the Correct Computational Approach for the Conversion of Gravimetric Data from One Reference Datum to Another. I. B. Osazuwa. **249**, 167
- An improvement upon Bowditch's Method of Adjusting Misclosures. J. Day. **238**, 396
- An introduction to least-squares collocation. A. Ruffhead. **224**, 85
- An Overview of the Surveying Curriculum at University of Nigeria. Nsukka (UNN). U. G. O. Okafor. **244**, 333
- Anallactic or otherwise. Telescopes. J. E. Jackson. **176**, 51
- Anallactic surveying telescopes with a positive focussing lens. The design of. S. P. Roy. **193**, 130
- Analogue Computer for Calculating and Adjusting Trilateration Nets. H. G. Jerie. **126**, 351
- Analogue Computer, Jerie. Notes on the Use of. for certain Cadastral Surveys in Kenya. A. G. Dagleish. **130**, 182
- Analogue. Electric. for Triangulation Adjustment. Hsuan-Loh Su. **111**, 30; **114**, 173
- Analogue, Frame Structure, Adjustment of a Trilateration Figure by. Leung Kui-Wai. **123**, 218
- Analysis of geodetic levelling: A new look at an old problem. The series of events model in the. E. B. Ebong. **229**, 338
- Analysis of geodetic networks for the determination of the incremental strain tensor. On the. F. K. Brunner. **192**, 56
- Analysis of Zambia's Isoka Primary Network. P. Dare and E. Mutale. **264**, 123
- Analysis, or game and guess. *A priori* and *a posteriori*. M. A. R. Cooper and P. A. Cross. (†). **201**, 137; **204**, 303
- Analysis. Effect of Systematic Errors due to the Non-coincidence of the Reference Surface with the Geoid for the Hellenic Region via Deformation. A. M. Agatzas-Balodimou and C. Mitsakaki. **232**, 51
- Analysis. Related number pair. B.R. Bowring. **219**, 267
- Analytical Method for the Adjustment of Aerial Triangulation, A Simplified. R. J. Owen. **91**, 227
- Analytical methods and automatic checks for area computation. A. Sanyaolu. **177**, 109
- Analytical Methods of Air Triangulation, Local Errors in Relation to. A. M. Wassef. **84**, 252
- Analytical Restitution of Detail Surveying for Automatic Co-ordinatographs. N. I. Levy. **135**, 2
- Analytical Solution of the Two-Point Problem. Notes on the. Leung Kui-Wai. **110**, 344
- Ananga, N. Coleman, R. and Rizos, C.* Zero-Epoch Heights and Height Velocities. **251**, 307

- Ananga, N. and Sakurai, S.* The Use of GPS Data for improving Local Geoid Determination. **259**, 334
- Ananga, N.* Vertical Movements of Levelling Bench Marks in Northern Israel. **239**, 25
- Ananga, N. Sakurai, S. and Kawashima, I.* High-Precision Land Reclamation Monitoring with GPS. **258**, 263
- Ananga, N. Sakurai, S. and Kawashima. I.* Cut Slope Deformation Determination with GPS. **265**, 144
- Ancient Metrology. E. N. R. Fletcher. **148**, 270
- Anderson, B. et al.* Britdoc. a geodetic terrestrial and space network. **209**, 117
- Andrew Bay. The archaeology of a geographic labourer. G. Jobey. **172**, 241
- Aneroid Barometer. Heights by. D. R. Crone. **69**, 311
- Aneroid Barometer. Notes on Levelling With the: W. G. G. Cooper. **2**, 71
- Aneroid Barometers in the Gold Coast, Notes on the Use of: G. C. Rogerson. **14**, 502
- Aneroid Heights. A Correction for the Exponential Lapse Rate. D. R. Crone. **110**, 377
- Aneroid Readings Based on a Standard Atmosphere and Lapse-Rate. Charts for the Reduction of Heights from. J. C. Bhattacharji. **115**, 222
- Aneroid Readings. Reduction of. V. Rangan. **103**, 20
- Aneroid Tables. New. G. T. M. **16**, 85
- Angelakis, N., Saburi, J., Jaeger, R., Illner, M., Jackson, P. and Pugh, K. T.* Height of Kilimanjaro. **278**, 551
- Angle measurement in the Aga 700 Geodimeter-principles and accuracies. Automatic. C. Rawlinson. **180**, 249
- Angle measurement using coded elements, with special reference to the Zeiss Reg Elta 14. Electronic. B. J. Gorham. **180**, 271
- Angle measurements. Refraction effects on vertical. A. H. Dodson and M. Zaher. **217**, 169
- Angles and Directions. J. S. Allman. **139**, 219
- Angles and Distances Combined Adjustments of. H. F. Rainsford. **150**, 348
- Angles and Station Adjustments. Triangulation: The Reduction of. H. F. Rainsford. **67**, 209
- Angles Measured in an Inclined Plane. The Reduction of. P. N. Ray. **104**, 85
- Angles versus Bearings in Triangulation. A J. Morley. **54**, 311
- Angles versus Directions. H. F. Rainsford. **146**, 146
- Angles. Directions and. in a Single Chain. G. H. Menzies. **83**, 219
- Angles. Directions versus. Least Squares Adjustments of Triangulation. H. F. Rainsford. **87**, 31
- Angles. Horizontal. in Triangulation. Some Practical Suggestions regarding their Observation and Adjustment. J. H. Cole. **87**, 36
- Angles. Primary Horizontal. A Method of Observing. J. E. S. Bradford. **67**, 222
- Angles. Traverse. A Method of Booking and Reducing. A. J. Rusk. **104**, 79
- Angles. Rapid surveying by pairs of. H. M. Barkla. **198**, 339
- Anglo-Egyptian Sudan. Base Measurement in the. D. F. Munsey. **72**, 67; **73**, 98; **74**, 155
- Anglo-Egyptian Sudan. Reconnaissance Mapping from Trimetrogon Photographs in the. J. W. Wright. **79**, 2

- Anglo-Ethiopian (Somaliland) Boundary Commission, 1932-5. G. T. M. **25**, 160; **26**, 225
- Anglo-Russian Treaty of 1825 and Establishment of the Alaska-Canada Boundary. Interpretation of the. J. Breese. **257**, 161
- Angular Corrections for the Lambert Orthomorphic Conical Projection. B. L. Gulatee. **62**, 311
- Angular Error in Traverse Observations, Another Method of Finding a Gross. B. Goussinsky. **42**, 216
- Angular Measurements. Report on the International Symposium on Terrestrial Electromagnetic Distance Measurements and Atmospheric Effects on. S. J. Curl. **177**, 144
- Angular Quantities. Conversion of. N. Vucetic, S. Petrovic, N. Francula and M. Lapaine. **237**, 354
- Angus-Leppan, P. V.* A Note on the Calculation of Position Lines. **98**, 185
- Angus-Leppan, P. V.* A Study of Refraction in the Lower Atmosphere. **120**, 62; **121**, 107; **122**, 166
- Angus-Leppan, P. V.* Adjustment of trilateration using length ratios. **166**, 355
- Angus-Leppan, P. V. and Williamson, I. P.* A project for upgrading the cadastral system in Thailand (Parts I and 2). **215**, 2; **216**, 63
- Angus-Leppan, P. V.* The height of Mount Everest. **206**, 386
- Angus-Leppan, P. V.* The three-peg adjustment for levelling instruments. **159**, 9
- Angus-Leppan, P. V.* Indirect Methods of Distance Measurement and a new Rangefinding Device. **135**, 19
- Announcements, Publisher's. **127**, 2; **134**, 392
- Anomalies, Geodetic. Practical Application of the Laplace Longitude- Azimuth Relation to the Control of. J. De Graaff-Hunter. **65**, 131
- Antarctic Connexions. K. B. Atkinson. **265**, 188
- Antarctica. Two Voyages to with the Australian National Antarctic Research Expeditions, 1961 and 1962. D'A. T. Gale. **131**, 221; **132**, 260
- Anthology of Numerical Solutions of Simultaneous Linear Equations. G. H. Menzies. **143**, 22
- Antipodes. Sir C. F. Arden-Close. **36**, 334
- Anti-shimmer Level and Levelling Staff, The: C. H. Ley. **7**, 12
- Applicable Complex and Unreal Geodesy. B. R. Bowring. **249**, 145; **250**, 200
- Application of a statistical technique for identification of outliers in multivariate E.D.M. data. The. A. G. Badellas and J. D. Doukas. **223**, 13
- Application of Graph Theory to the Ordering of Large Survey Networks. F. L. Clarke and C. K. Tan. **235**, 195
- Application of Photogrammetry to Satellite Geodesy. H. Dekker. **150**, 363; **151**, 6; **152**, 60; **153**, 106; **154**, 154; **155**, 202
- Application of Radar to Surveying. The. J. Warner. **78**, 338
- Application of Statistical Techniques to the First Order Levelling Network of Taiwan for Detecting Remained Non-Random Effects. Rongshin Hsu. **259**, 316
- Application of Tape and Disc Recording Machines to Field Astronomy. The. and an Observational Method arising therefrom. A. L. Allan. **133**, 305

- Application of Transformation Factors to the Adjustment of Air Photographs covering Narrow Land Areas and Coast Lines. W. E. Browne. **73**, 119
- Applications to adjustment in height controlled space. Differential relationships with. B. R. Bowring. **210**, 157
- Approximate Methods of Solving Normal Equations. A. N .Black. **52**, 242
- Approximated Calculations. Non-Current Ephemeris for. S. Troisi and L. Turturici. **233**, 135
- Approximation to the Standard Error. A Rapid. J. G. Olliver. **127**,151
- Arabatzi, O., Mavrellis, G. and Stathas, D.* Testing the Digital Level Wild-NA 2000 in Laboratory and Field Conditions.. **248**, 99
- Arabelos, D., Xu Dao-Yi and Asteriadis, G.* Equidistant Ordering of Large Earthquakes in the Aegean and Surrounding Areas. **273**, 204
- Arabelos, D., Xu Dao-Yi et al.* Equidistance Ordering of Large Earthquakes in North China. **263**, 19
- Arbitrary Inconsistent Linear Equations, On the Least Squares Adjustment of. B. Cvetkov. **128**, 89
- Arc in 'Iraq, Early Measurements of: K. M. Papworth. **20**, 334
- Arc of the 30th Meridian in Africa. The. Sir C. F. Arden-Close. **49**, 141
- Arc of the 30th Meridian, The African. H. F. Rainsford. **82**, 159
- Arc of the 30th Meridian, The Survey of an. H. P. Rowe. **51**, 223
- Arc. The East African II. Marks and Beacons: M. Hotine, **14**, 472
- Arc. The East African. The Lay-out of. M. Hotine. **12**, 357
- Arc. The East African. III, Observations. M. Hotine. **16**, 72
- Arc. The East African. V, Base Measurement, **18**, 203
- Archaeology of a geographic labourer: Andrew Bay. G. Jobey. **172**, 241
- Arc-to-Chord and Finite Distance Scale Factor Formulae. Transverse Mercator. A. G. Bomford. **125**, 318
- Arden-Close Sir C. F.* The State of the Surveys of British Africa in 1905-06. **76**, 255
- Arden-Close, Sir C. F.* A Combined Projection. **49**, 135
- Arden-Close, Sir C. F.* A Great British Geodesist. Alexander Ross Clarke. **49**, 107
- Arden-Close, Sir C. F.* Claude Reignier Conder (1848-1910) and the Survey of Palestine. **52**, 234
- Arden-Close, Sir C. F.* The Centre of Africa. **40**, 66
- Arden-Close, Sir C. F.* A Combined Cylindrical Projection. **32**, 66
- Arden-Close, Sir C. F.* Antipodes. **36**, 334
- Arden-Close, Sir C. F.* North-Westerly. **39**, 2
- Area calculation. Optimisation techniques in curved. F. A. Ahmed. **210**, 163
- Area Computation of a Polygon on an Ellipsoid. I. Gillissen. **248**, 92
- Area computation. Analytical methods and automatic checks for. A. Sanyaolu. **177**, 109
- Area Computations using Shape Functions. D. R. Twigg. **251**, 293
- Area cut off by co-ordinates. N. F. Danial. **212**, 269
- Area in Formation of the Condition Equations for Trilateration and Mixed Figures. Use of the. A. Sabbah. **142**, 361
- Area under the Geodesic. The. J. Danielsen. **232**, 61
- Area, Units of Length and. G. T. M. **40**, 85; **44**, 339
- Area-computing Scale, A Logarithmic: E. Shisha. **20**, 338

- Areas by Equidistant Offsets. G. T. M. **9**, 168
- Areas by Machine, Some Notes on the Elling Method of Computing. B. Goussinsky. **26**, 221
- Armstrong, J. A. and Hogg, F. B. R. Two New Self-Adjusting Levels. **111**, 2
- Art of Original Circular Dividing. The. E. W. Taylor. **49**, 99
- Arthur, J. V. Back to Basics (6). **264**, 101
- Asante, Kweku. G. E. Ferguson. An African Pioneer. **8**, 102
- Ashkenazi, V. and Howard, P. D. An empirical method for refraction modelling in trigonometrical heighting. **213**, 311
- Ashkenazi, V. and McLintock, D. Very long baseline interferometry; an introduction and geodetic applications. **204**, 279
- Ashkenazi, V. and Windsor, L. M. Current thinking on the solutions of large sets of simultaneous linear equations. **159**, 41
- Ashkenazi, V. et al. Using GPS to control a triangulation network. **228**, 287
- Ashkenazi, V. et al. Britdoc. 1982 Doppler campaign results. **210**, 169
- Ashkenazi, V. et al. Britdoc. a geodetic terrestrial and space network. **209**, 117
- Ashkenazi, V. Solution and Error analysis of large geodetic networks. **151**, 34; **152**, 80
- Ashkenazi, V., Wuddah-Martey, E. E. L. and Dodson, A. H. Rigorous adjustment of an EDM traverse on a desk calculator. **165**, 325
- Ashkenazi, V. Solution and Error Analysis of Large Geodetic Networks. **146**, 166; **147**, 194
- Aspects of the Computation of Tellurometer Work, Various. J. L. Dixon. **133**, 323
- Astronomical Longitude Observations in Australia, Precise. G. G. Bennett. **129**, 142
- Aspland, E. C. A review of self reducing double-image tacheometers. **159**, 15
- Aspland, E. C. and Smith, J. R. Observational errors and the Kern DK-RT horizontal bar tacheometer. **160**, 5
- Aspland, E. C. Wild DI-10 Distomat-A digest of users' reports. **166**, 368
- Assembling Closed Polygons. B. Shmutter and Y. Doytsher. **235**, 209
- Assessment of the Tellurometer MA 200 for Vibrational Measurement of Flexible Structures. A Preliminary. T. J. M. Kennie, C. M. Howard and S. P. Horkan. **232**, 67
- Assumption. The Radial Line. E. H. Thompson. **76**, 268
- Asteriadis, G. and Schwan, H. An Analysis of a Ten-year Survey of the Geodetic Network at the Seismic Area of Lake Volvi in Northern Greece for detecting Real Crustal Movements. **245**, 390
- Asteriadis, G. and Schwan, H. GPS and Terrestrial Measurements for Detecting Crustal Movements in a Seismic Area. **269**, 447
- Asteriadis, G., Xu Dao-Yi et al. Equidistance Ordering of Large Earthquakes in North China. **263**, 19
- Asteriadis, G., Xu Dao-Yi and Arabelos, D. Equidistant Ordering of Large Earthquakes in the Aegean and Surrounding Areas. **273**, 204
- Aston, R. L. The Munich Courses in Distance Measurement. **107**, 230
- Astro Fix by The Ex-Meridian Stars. W. P. Smith. **71**, 37
- Astrofixes by the method of equal zenith distances. B. R. Bowring. **196**, 280
- Astrogeodesy. Determination of a local geodetic datum from. F. L. Clarke. **196**, 268

- Astrolabe. Comparison of methodologies for the calculation of latitude by means of the. S. Troisi and L. Turturici. **220**, 322
- Astronomic determinations of deflection of the vertical. V. Achilli, P. Baldi and S. Zerbini. **208**, 75
- Astronomical data. Yearly sets of Fourier coefficients for the evaluation of. G. G. Bennett. **189**, 326
- Astronomical Determination of Azimuth and Latitude by Observation of Two Unknown Stars without Time Measurement and Knowledge of Astronomy. B. Buonocore and A. Vassallo. **242**, 233
- Astronomical field tables for use of the land surveyors of Canada. C. A. Biddle. **169**, 136
- Astronomical Latitude and Longitude. A Method of Determination of where only Time and Horizontal Angles are Observed. J. C. Bhattacharjee. **110**, 352
- Astronomical Latitude from Observations of a Star Pair near Their Times of Elongation, A Method of Determining. J. C. Bhattacharji. **114**, 161
- Astronomical Notation. L. P. Lee. **156**, 290
- Astronomical Observations, A Graphical Method of Selecting Stars for. D. Gadd. **118**, 377
- Astronomical Position and Azimuth by Horizontal Directions. L. P. Adams. **148**, 242
- Astronomical Positions. Notes on the Fixing of. R. C. Wakefield. **24**, 79
- Astronomical Theodolite. The Wild. **49**, 137
- Astronomical Triangle, Conventions and Generalized Formulae for the. L. P. Lee. **94**, 372
- Astronomical Triangle. Notes on the. W. Maré. **103**, 25
- Astronomical. Position and azimuth by horizontal directions. A rigorous solution. L. P. Adams. **159**, 2
- Astronomy and Other Matters. Mental Field, H. A. L. Shewell. **128**, 58; **129**, 113
- Astronomy as Applied to Surveying, Some Notes on. R. W. Pring. **85**, 309
- Astronomy in the next decade. Geodetic. A. R. Robbins. **185**, 99
- Astronomy. Field. A System of Conventions for Use in. J. G. Freislich. **90**, 174
- Astronomy. Field. The Application of Tape and Disc Recording Machines to. and an Observational Method arising therefrom. A. L. Allan. **133**, 305
- Astronomy. Field. Two Short Notes on. (A) Azimuth Setting and (B) Longitude by Transits. N. R. Fallon. **104**, 89
- Astronomy. General Theory for Horizontal Angle Observations in. L. A. White. **141**, 316; **142**, 346
- Astronomy. Hispano-Muslim, A Note on. W. A. Garstin. **86**, 356
- Astronomy. Islamic, A Note on. W. A. Garstin. **85**, 306
- Astronomy. Time in Geodetic. A. R. Robbins. **143**, 2
- Astro-radio Points, K. M. Papworth. **33**, 153
- Atkinson, A. P. Triangulation by the Direction Method. **110**, 364; **111**, 6
- Atkinson, K. B. and Proctor, D. W. The Eleventh International Congress for Photogrammetry. **151**, 44
- Atkinson, K. B. Antarctic Connexions. **265**, 188
- Atkinson, N. and Allan, A. L. Back to Basics. (14). **272**, 134; (15). **273**, 187; (16). **274**, 265; (17). **275**, 356; (18) **276**, 412; (19). **277**, 499; (20) **278**, 571.

- Atmospheric correction in long distance E.D.M. measurement. A new approach to the problem of. J. T. Pinto. **224**, 69
- Atmospheric models with trilateration. The use of. K. D. Robertson. **186**, 179
- Atmospheric Parameters on its Elevation Dependence. The Excess Propagation Path of Radio Waves. Study of the Influence of the. I. M. Ifadis. **243**, 289
- Atmospheric Refraction for Radio Waves. Modelling of the. I. M. Ifadis. **236**, 259
- Atmospheric Refraction, An Empirical Investigation of. A. Thorn. **108**, 248
- Atmospheric refractivity correction in optical EDM. A new method for assessing the Attraction of the "Compensation". A Note. G. T. M. **25**, 159
- Attraction of the "Compensation" on the Pratt Hypothesis. G. T. M. **24**, 85
- Attractions, Local. and their Influence on the Determination of Heights above Mean Sea Level. H. L. P. Jolly. **12**, 352, **14**, 464
- Aubrey Barker scholarships. **166**, 392
- Australia co-operate to update Thailand's Land Titles System. Thailand and. H. G. Manning. **245**, 370
- Australia, Precise Astronomical Longitude Observations in. G. G. Bennett. **129**, 142
- Australia. Chaining in. H. Law. **168**, 90
- Australia. Geoidal studies in. R. S. Mather and J. G. Fryer. **156**, 268
- Australia. The Geodetic Adjustment of. A. G. Bomford. **144**, 52
- Australian Land Information Council : National Coordination of Land Information Management through a Peak Inter-governmental Council. The. K. C. Bell. **240**, 71
- Auto-Collimation. A Test of. W. M. Dennis. **41**, 151
- Automated Cartography. J. G. Olliver. **145**, 139
- Automated survey system-from field to finished plan. Some considerations for a fully. W. F. Johnston. **192**, 51
- Automatic cartography-report on the British Cartographic Society symposium at Southampton September 14th-16th, 1973. J. W. Wright. **171**, 236
- Automatic functions on desk calculators. J. R. Smith. **176**, 59
- Automatic Levels, An Investigation of the Instrumental Sources of Error in Levelling of High Precision by Means of. P . Berthon Jones. **132**, 276; **133**, 313; **134**, 346
- Automatic standard deviation key. A note on the limitations of an. J. R. Smith. **178**, 189
- Automation in Land Partitioning Problems. A. Fotiou and M. Papadopoulou. **248**, 80
- Aw York Bin and Goh Pong Chai*. Improving Cadastral Survey Controls using GPS Surveying in Singapore. **261**, 488
- Awange, J. L. and Aduol, F. W. O.* An Evaluation of Some Robust Estimation Techniques in the Estimation of Geodetic Parameters. **273**, 146
- Azimuth and Distance Correction for the Geodetic Lines on the Lambert Conformal Projection. J. T. Fang. **75**, 218
- Azimuth and Latitude by Observation of Two Unknown Stars without Time Measurement and Knowledge of Astronomy. Astronomical Determination of. B. Buonocore and A. Vassallo. **242**, 233
- Azimuth and latitude determination by observations of an unknown star-a new solution. A. Vassallo. **209**, 109
- Azimuth and latitude from observed altitude: a rigorous solution. O. C. Ezenwere. **178**, 184

- Azimuth and Latitude, Determination of. from Observations of a single Unknown Star. S. K. Ghosh. **87**, 17
- Azimuth and Latitude, Determination of. from Observations of an Unknown Star. André Gougenheim. **94**, 342
- Azimuth and Time. Corrected. Two Stars in the same "Vertical" Plane. G. T. M. **39**, 41
- Azimuth Computation in the Old Principal Triangulation of the British Isles. H. L. P. Jolly. **53**, 271
- Azimuth Controlled Almucantar Observations for Position. G. J . Thornton-Smith. **109**, 301
- Azimuth Criteria for the Determination of by Observing Stars at Elongation. A. F. Smith. **121**, 136
- Azimuth Determination. A Note on. A. N. Black. **89**, 121
- Azimuth from meridian transits by interpolation. Geodetic. E. E. L.Wuddah-Martey **158**, 376
- Azimuth from the time rate of change of altitude and azimuth of the sun. Position and. G. G. Bennett. **198**, 373
- Azimuth Geodetic, and Deviation of the Vertical. A Practical Method of Determining. J. C. Bhattacharji. **112**, 71
- Azimuth Latitude and Time, Simultaneous Determination of. by Observations to a Pair of Stars. V. N. S. Murthy. **111**, 15
- Azimuth Observation in the Almucantar An. G. J. Thornton-Smith, **94**, 362
- Azimuth Observations, Elimination of Errors of Latitude and Refraction in the Pairing of. D. E. Smith. **25**, 153
- Azimuth Observations. Precise. upon a Close Circumpolar Star at any Hour Angle. The Curvature Correction in. G. J. Thornton-Smith. **80**, 65
- Azimuth of Long Lines on the Earth, Length and. A. R. Robbins. **84**, 268
- Azimuth of the sun. Position and azimuth from the time rate of change of altitude and. G. G. Bennett. **198**, 373
- Azimuth program. Combined solar ephemeris and. P. Done, W. R. Mohammed and M. Jones. **224**, 95
- Azimuth Setting, (A), and (B) Longitude by Transits. Two Short Notes on Field Astronomy. N. R. Fallon. **104**, 89
- Azimuth Variation from Observations of Close Circumpolar Stars. J. C. Bhattacharji. **139**, 208
- Azimuth. A Circum-Almucantar Observation for, G. J . Thornton-Smith. **112**, 79
- Azimuth. latitude and longitude from direction and time. A rigorous solution for. O. C. Ezenwere. **201**, 141
- Azimuth. Latitude and Longitude, A Photographic Method of Determining. N. J. D. Prescott. **134**, 355
- Azimuth, Tabular. M. R. C. Nanson. **39**, 13
- Azimuths between Non-Intervisible Stations, Resection for. T. Vincenty. **132**, 286
- Azimuths. The Clarke Formulae for Latitude, Longitude and Reverse. with Corrective Terms for Very Long Lines. H. F. Rainsford. **56**, 53; **57**, 102
- Back to Basics. (1), A. L. Allan. **259**, 339; (2), **260**, 416; (3), **261**, 454; (4), **262**, 529; (5), **263**, 57; (6), J.V. Arthur. **264**, 101; (7), E. J. Price. **265**, 191; (8), M. J. Smith and T .Moore. **266**, 237; (9), A.L. Allan. **267**, 307; (10), **268**, 373. (11)/(12), Parts 1/2.

- T. Moore and M. J. Smith. **269**, 473; **270**, 509; (13), L. P. Adams. **271**, 41; (14), N. Atkinson and A. L. Allan. **272**, 134; (15), **273**, 187;(16), **274**, 265;(17), **275**, 356; (18), **276**, 412; (19), **277**, 499;(20), **278**, 572
- Bacon*, C. J. Local changes in the geoid due to a loading of the earth's crust. **216**, 103
- Badellas, A and Savaidis, P.* Some considerations on the temperature dependence during electromagnetic distance measurements. **198**, 368
- Badellas, A. et al.* Determination of Ground Displacements in the Seismic Zone of Volvi. Greece. **266**, 229
- Badellas, A. G. and Doukas, J. D.* The application of a statistical technique for identification of outliers in multivariate E.D.M. data. **223**, 13
- Badellas, A., Penelis, G. and Savaidis, P.* Measurements for the Construction of the Test Slab of the Laboratory of Reinforced Concrete Structures of the University of Thessaloniki. **238**, 404
- Balchin W. G. V.* Air Maps. **66**, 138
- Balchin, W. G. V.* The Choice of Map Projections. **92**, 263
- Baldi, P. and Achitti, V.* Computation of local anomalies of the vertical's deflection in geodetic networks. **205**, 327
- Baldi, P. et al.* Astronomic determinations of deflection of the vertical. **208**, 75
- Baldini, A. A.* Determination of level sensitivity without moving the level from the instrument. **175**, 3
- Ball, Dr John.* **42**, 256
- Balodimos, D.-D., Georgopoulos, G. and Telioni, V.* Kinematic Adjustments of a Levelling Control Network. **253**, 405
- Bancroft, A. D.* A New Type of Lightweight Surveying Tower. **137**, 98
- Bancroft, A. D.* An account of the Survey Carried out by the Falkland Islands Dependencies Aerial Survey Expedition, 1955-56,1956-57. **112**, 50; **113**, 98
- Bari, M. Q.* Everest spheroid in metres. **175**, 37
- Barkla, H. M.* Rapid surveying by pairs of angles. **198**, 339
- Barnes, J. B., Edwards, S. J., Cross, P. A. and Bétaille, D.* A Methodology for Benchmarking Real Time Kinematic GPS. **273**, 163
- Barometer. Aneroid. Heights by. D. R. Crone. **69**, 311
- Barometric Determination of Elevation. G. U. Wilson. **118**, 350
- Barometric Networks and Field Gravity Surveys. The Reduction of. C. J. Bellamy and G. D. Lodwick. **147**, 216
- Barrett, M. M.* U .K. cadastral plans and the law-the significance of Lee v. Barrey. **205**, 337
- Barrey.* U .K. cadastral plans and the law-the significance of Lee v. M. M. Barrett. **205**, 337
- Barycentric resection formulae. A proof of the. A. L. Allan. **177**, 106
- Base Line in the Gold Coast. The Measurement of a long. E. W. Nesham. **4**, 176
- Base Line. Lough Foyle. Northern Ireland. The Remeasurement of the. W. R. Taylor. **126**, 339
- Base Line, Matang: N. A. Middlemas. **7**, 36
- Base Lines of the Ceylon Triangulation, Notes on the. J. E. Jackson. **3**, 129
- Base Measurement in Southern Sudan. D. F. Munsey. **115**, 198

- Base Measurement in the Anglo-Egyptian Sudan. D. F .Munsey. **72**, 67; **73**, 98; **74**, 155
- Base Measurement. The Retriangulation of Great Britain IV. M. Hotine. **34**, 211
- Base Measuring Apparatus. Some Effects of Pulley Eccentricity in. J. W. Wright. **74**, 162
- Baseline interferometry, an introduction and geodetic applications. Very long. V. Ashkenazi and D. McLintock. **204**, 279
- Baseline Investigated. The First Russian Wire-Measured. V. B. Kaptüg, Yu. G. Sokolov, S. G. Vereshehagin and V. A. Garnikyan. **274**, 251
- Baseline test results. The Geomensor CR204 A. H. Dodson and P. Fleming. **229**, 351
- Baseline. The Lagos 11.4 km. F. O. A. Egberongbe, O. Fadahunsi, F. A. Fajemirokun and T. Parm. **222**, 389
- Bases. Two Notes on Short Tertiary. J. De Graaff-Hunter. **1**, 12
- Basu, K. R.* A Method for Resection Computation. **109**, 326
- Baxandall, D.* The Inventor of the Station Pointer. **7**, 18
- Bazley, A. G.* An Early Hydrographic Surveyor. **58**, 154
- Bazley, A. G.* Geographical Positions in Mauritius and Rodriguez. **27**, 290
- Bazley, A. G.* Geographical Positions in Malaya and Siam. **30**, 450
- Beacon and Deed-Plan in South Africa. Relations of. W. M. Edwards. **5**, 203
- Beacon Hill, Bulford: a monument of the principal triangulation. H. G. Welfare. **194**, 147
- Beacon Spar. Floating Marks in Hydrographic Surveying. **7**, 21
- Beacon *versus* Deed-Plan. C. O. Gilbert. **3**, 98
- Beacons and the Wild Theodolite. Triangulation. D. L. Leach. **12**, 335
- Beacons, Geodetic. M. Hotine. **9**, 151
- Beacons, Marks and. The East African Arc. II. M. Hotine. **14**, 472
- Beacons, Triangulation. E. J. Smallfield. **38**, 405
- Bearing, The Expansion of Paper as affecting. T. Brown. **23**, 53
- Bearings and Distances on the Conical Orthomorphic Projection. Grid. J. Clendinning. **48**, 68; **51**, 211; **52**, 248
- Bearings Versus Angles in Triangulation. A. J. Morley. **54**, 311
- Beating the bounds. A. C. McEwen. **207**, 13
- Beer, A. J. and Wetherelt, A.* Light Sectioning of Underground Excavations. **256**, 87
- Beer, A. J., Wetherelt, A. and Russ, K. D.* Development of a Low-Cost, Laser-Based System for Three-Dimensional Void Visualisation. **272**, 74
- Begg, R. H.* Ping pong triangulation. **167**, 36
- Beginning of modern geodesy 250 years ago. The, J. R. Smith. **225**, 105
- Beiträge zur Zentrierung von Richtungen. (J. De Graaf.-Hunter). **76**, 279
- Bell, J. F.* Notes on the Keeping of Survey Records. **138**, 164
- Bell, J. F.* Recent Symposia on Mathematical Geodesy. **139**, 228
- Bell, J. F.* Some reflections on Cambridge 1979. **196**, 243
- Bell, J. F.* The Field Calibration of Gravimeters. **144**, 72
- Bell, J. F.* The Intersection Problem-A Statistical Paradox ? **149**, 295
- Bell, K. C.* The Australian Land Information Council: National Coordination of Land Information Management through a Peak Inter-governmental Council. **240**, 71
- Bellamy, C. J. and Lodwick G. D.* The Reduction of Barometric Networks and Field Gravity Surveys. **147**, 216

- Bellamy, C. J. and Watterson, G.* Least Squares adjustment of networks. **156**, 250
Belling, G. E. and Williams H. S. The Reduction of Gyro-theodolite Observations. **146**, 184
Bench Mark Stability in Nigeria. M. B. Ebong and A. A. Musa. **243**, 263
Bench Marks in Northern Israel. Vertical Movements of Levelling. N. Ananga. **239**, 25
Bendel State. The Cadastre and Revenue Generation-A Case Study of. D. P. C. Osayimwese. **232**, 82
Bennett, G. G. Position and azimuth from the time rate of change of altitude and azimuth of the sun. **198**, 373
Bennett, G. G. Precise Astronomical Longitude Observations in Australia. **129**, 142
Bennett, G. G. Yearly sets of Fourier coefficients for the evaluation of astronomical data. **189**, 326
Bennett, J. M. and Cotton, H. Traverse Reduction with an Electronic Digital Computer. **97**, 111
Bennett, S. J. The NPL 50 metre laser interferometer for the verification of geodetic tapes. **172**, 270
Ben-Yosef, Y. Maps and Land Use. **102**, 342
Berberan, A. Multiple Outlier Detection. A Real Case Study. **255**, 41
Bere, C. G. T. Direct field plotting using short-range EDM. **179**, 234
Beresford, R. M. The Use of Helicopters on Six-inch Resurvey in Scotland during the 1964-65 Field Seasons. **141**, 312
Berlin, L. Adjustment of the Optical Plummet of the Wild T.2. **142**, 356
Berthon Jones, P. A comparison of the precision of traverses adjusted by Bowditch rule and by least squares. **164**, 253
Bervoets, S. G. Shifting and Rotating a Figure. **256**, 454
Bessel-Spheres for Solution of Problems Related to Geodesics on the Ellipsoid. The Use of. J. S. Danielsen. **253**, 445
Bétaille, D., Edwards, S. J., Cross, P. A. and Barnes, J. B. A Methodology for Benchmarking Real Time Kinematic GPS. **273**, 163
Bhattacharji, J. C. A Method of Determination of Astronomical Latitude and Longitude when only Time and Horizontal Angles are Observed. **110**, 352
Bhattacharji, J. C. A Practical Method of Determining Geodetic Azimuth and Deviation of the Vertical. **112**, 71
Bhattacharji, J. C. A Method of Determining Astronomical Latitude from Observations of a Star-Pair near their Times of Elongation. **114**, 161
Bhattacharji, J. C. A rapid Semi-graphic Method of Adjusting a Doubly- braced Quadrilateral of Measured Lengths of Given \ Weights. **145**, 102
Bhattacharji, J. C. Azimuth Variation from Observations of Close Circumpolar Stars. **139**, 208
Bhattacharji, J. C. Charts for the Reduction of Heights from Aneroid Readings Based on a Standard Atmosphere and Lapse-Rate. **115**, 222
Bhattacharji, J. C. Determination of the Earth's Gravity Field in Inaccessible Regions. **247**, 22
Bhattacharji, J. C. Gravimetric Determination of Upper Crustal Density Distribution. **260**, 411

- Bhattacharji, J. C.* Isostatic Reduction on Airy-Heiskanen Hypothesis using 1° Averaged Heights on Idealised Earth. **241**, 148
- Bhattacharji, J. C.* The Indian Foot-Metre Ratio and its Adoption in the Indian Geodetic System. **119**, 13
- Bhattacharji, J. C.* A Short Note on the Simultaneous Determination of Isostatic Gravity and Co-Geoidal Effects Based on Airy- Heiskanen and Pratt-Hayford Hypotheses Using 1° Averaged Topographic Masses on the Idealised Earth. **253**, 415
- Bibby, H. M. and Reilly, W. I.* A conformal mapping projection with minimum scale error-part 2: scale and convergence in projection co-ordinates, **176**, 79
- Bibby, H. M. and Reilly, W. I.* A conformal mapping projection with minimum scale error part 3: transformation of co-ordinates and examples of use. **181**, 302
- Bibliography of Cadastral Survey and Land Records. A. E. M. Dowson. and V. L. O. Sheppard. **60**, 210
- Biddle, C.* A Design for a Topo Beacon. **101**, 335
- Biddle, C. A.* Astronomical field tables, for use of the land surveyors of Canada, **169**, 136
- Biddle, C. A.* Traversing with the Subtense Bar. **95**, 45
- Biesheuvel, H.* Survey Camp. Some Notes on the Making of Land Use Maps. **90**, 159
- Biesheuvel, H.* A Popular Fallacy. **116**, 270
- Biesheuvel, H.* Least Squares Adjustments of Triangulation. **84**, 274
- Biesheuvel, H.* The Adjustment and Weighting of Dissimilar Quantities. **126**, 347
- Biesheuvel, H.* The Adjustment of Traverse Nets. **79**, 24
- Biesheuvel, H.* The Double Image Telemeter. **98**, 160
- Biger, C. and Gavish, D.* Innovative cartography in Palestine of 1917-1918. **208**, 81
- Bill, R.* The First Tellurometer Symposium-30th July-3rd August, 1962. **127**, 45
- Binary liquid hydrostatic levelling. The system temperature of. J. Sneddon. **177**, 138
- Binary system hydrostatic levelling. The temperature equivalence assumption for. J. Sneddon. **191**, 3
- Bindon, P. C.* Training African Surveyors in Uganda. **80**, 79
- Bird, R. G.* Approximate polynomials of trigonometrical series. **170**, 165
- Bird, R. G.* Least Squares adjustment of a traverse. **155**, 218
- Bird, R. G.* Least squares adjustment of EDM traverses. **165**, 307
- Bird, R. G.* Meeting of Teachers of Surveying, December 1965. **141**, 327
- Bird, R. G.* The Accuracy of Subtense Bar Measurements in Relation to the Number of Observations of the Subtended Angle. **148**, 256
- Bjerhammar's Deterministic and Collocation Methods over Scandinavia. Computation of Mean Free-Air Anomalies by. H. Nahavandchi. **278**, 513
- Black, A. N.* A Note on Azimuth Determination. **89**, 121
- Black, A. N.* Approximate Methods of Solving Normal Equations. **52**, 242
- Black, A. N.* Laplace Points in Moderate and High Latitudes. **82**, 177
- Black, A. N.* The Method of Systematic ReJaxation applied to Survey Problems. **29**, 406
- Black, I. G. and John, M. R.* Economic Evaluation of the Hydrographic Survey and Services. Public Goods and the Effects of New Technology. **247**, 47
- Blake, F. C.* Map Reproduction in the Tropics. **20**, 347

- Blank, L. D. and Allan, A. L.* Henry VII's Chapel at Westminster Abbey:
Photogrammetric Recording and Survey Control. **270**, 517
- Bligh, Captain William, R.N., Hydrographic Surveyor. A. H. W. Robinson.* **85**, 301
- Bomford, A. G. and Paterson, W. S. B.* The Survey of South Georgia. **107**, 204; **108**,
242
- Bomford, A. G.* Precise Tellurometer Traversing. **117**, 316; **118**, 342
- Bomford, A. G.* The Geodetic Adjustment of Australia, 1963-1966. **144**, 52
- Bomford, A. G.* The role of a national mapping organisation. **195**, 195
- Bomford, A. G.* Transverse Mercator Arc-to-Chord and Finite Distance Scale Factor
Formulae. **125**, 318
- Bomford, G. J. de Graaff-Hunter (Obituary).* **144**, 50
- Bomford, G.* Geodetic Surveys in India 1930-35. **200**, 65
- Bonnet, P. B.* Three Years and More of the Rising Sun, or a Colonial Survey Department
under a New Master. **70**, 330
- Booking and Reducing Traverse Angles. A Method of. A. J. Rusk. **104**, 79
- Borneo, North, Land and Survey Records during the Japanese Occupation. T. J. H.
Speedy. **80**, 50; **81**, 112
- Borneo, The State of North. D. McCaw. **2**, 84
- Borutta, H. with Caspary, W.* Robust estimation in deformation models. **223**, 29
- Botley, F. V.* An Octahedral Gnomonic Projection. **94**, 379
- Bottomley, Sir W. C. Foreword. **1**, 2
- Boulnois, P. K.* The International Union of Geodesy and Geophysics at Lisbon. **11**,
282
- Boundaries of Europe, The International. H. S. L. Winterbotham. **58**, 133
- Boundaries, Oblique. G. T. M. **4**, 168
- Boundary Commission 1911- 13. The Peru-Bolivia. M. R. C. Nanson. **14**, 484
- Boundary Commission, 1932-5. Anglo-Ethiopian (Somaliland). G. T. M. **25**, 160; **26**,
225
- Boundary Commission, The Canada-United States. N. J. Ogilvie. **6**, 249
- Bounds. Beating the. A. C. McEwen. **207**, 13
- Bowditch Traverse Adjustment and a Modification. G. T. M. **29**, 417; **30**, 482
- Bowditch Traverse Adjustment and a modification: Notes .G. T. M. **31**, 36
- Bowditch. Critical Support for. G. T. M. **38**, 497
- Bowditch's Method of Adjusting Misclosures. An Improvement upon. J. Day. **238**, 396
- Bowditch's Rule, A Modification of, to Preserve the Bearing of the Datum Line in a
Closed Traverse. G. J. Thornton-Smith. **73**, 111
- Bowen, R.* Some Difficulties Experienced in Using Multiplex Plotting Equipment. **81**,
128
- Bowie, I. G.* Latitude Determination without Vertical Circle Readings. **102**, 380
- Bowring Formulas developed for Solutions of the Geodesic Inverse and the Great Elliptic
Inverse. Discussions of Results from the. B. K. Meade. **261**, 477
- Bowring, B. R.* A Design for Triaxial Number Facilities on Calculator or Computer. **239**,
34
- Bowring, B. R.* A Projection of the World Coastline. **242**, 226
- Bowring, B. R.* Applicable Complex and Unreal Geodesy **249**. 145; **250**, 200
- Bowring, B. R.* Astrofixes by the method of equal zenith distances. **196**, 280

- Bowring, B. R.* Construction for a Regular Heptagon. **249**, 182
Bowring, B. R. Constructions for Cube Roots. **253**, 441
Bowring, B. R. Differential relationships with applications to adjustment in height controlled space. **210**, 157
Bowring, B. R. Equations for the Isocurve. **241**, 159
Bowring, B. R. New Ideas on Isometric Latitude. **236**, 270
Bowring, B. R. Notes on the curvature in the prime vertical section. **226**, 195
Bowring, B. R. Related number pair analysis. **219**, 267
Bowring, B. R. The accuracy of geodetic latitude and height equations. **218**, 202
Bowring, B. R. The Central Projection of the Spheroid and Surface Lines. **265**, 163
Bowring, B. R. The further extension of the Gauss Inverse Problem. **151**, 40
Bowring, B. R. The normal section-forward and inverse formulae at any distance. **161**, 131
Bowring, B. R. The surface controlled spatial system for survey computations. **190**, 361
Bowring, B. R. The surface of constant height. **197**, 332
Bowring, B. R. The Transverse Mercator Projection -A Solution by Complex Numbers. **237**, 325
Bowring, B. R. Total Inverse Solutions for the Geodesic and Great Ellipse. **261**, 461
Bowring, B. R. Transformation from spatial to geographical co-ordinates. **181**, 323
Bowring, B. R. Transverse Mercator Equations obtained from a Spherical Basis. **233**, 125
Bowring, B. R. Triaxial numbers with applications to geodesy. **222**, 399
Bradford, J. E. S. The Transvaal-Southern Rhodesia Geodetic Connexion. **30**, 457
Bradford, J. E. S. Geodetic Signals in Southern Rhodesia. **21**, 407
Bradford, J. E. S. A Method of Observing Primary Horizontal Angles. **67**, 222
Bradford, J. E. S. A Simple Method of Erecting High Signals. **67**, 226
Bradford, J. E. S. Determination of Tape Temperatures on the Measurement of the Wankie and Sabi Geodetic Bases, Southern Rhodesia (1953). **91**, 210
Bradford, J. E. S. Southern Rhodesian Military Surveyors in the World War. 1939-1945. **62**, 282; **63**, 14
Bradford, J. E. S. A Three-Million-Acre Title Survey. **22**, 469
Bradley, H. E. The Year 1935 in Nigeria. **22**, 486
Bradley, H. E. The Year 1936 in Nigeria. **27**, 295.
Bradley, H. E. The Year 1937 in Nigeria. **31**, 50
Bradsell, R. H. A simple calibrator for the Mekometer. **186**, 172
Bradsell, R. H. and Froome, K. D. Long-term stability of an NPL Mekometer III wavelength standard. **186**, 166
Bradsell, R. H. Georan I, a compact two-colour EDM instrument. Part II: electronic principles. **179**, 219
Bradsell, R. H. The electronic principles of the Mekometer III. **161**, 112
Brazier, H. H. and Humphries, G. J. First-Order Traversing with the Tellurometer. **109**, 290
Brazier, H. H. and Williams, V. A. The Adjustment of a Block of Aerial Triangulation Evaluated with the Wild A5. **95**, 22
Breach, M. C. and Maye, P. Heights above the geoid for mapping control by Doppler translocation. **230**, 363

- Breach, M. C.* The Importance of Accurate Coordination of a Known Station in Precise Relative Positioning. **238**, 398
- Breach, M. C.* Theodolite errors. **214**, 355
- Breese, I.* Interpretation of the Anglo-Russian Treaty of 1825 and Establishment of the Alaska-Canada Boundary. **257**, 161
- Bridges, Multiplex*, The Height Closing Error in, Caused by Non-Flat Diapositives. H. Käding. **94**, 349
- Britain*: A review of some current activities. geodesy in. J. G. Olliver. **209**, 113
- Britdoc*: 1982 Doppler campaign results. B. Hogarth, S. A. Crane and V. Ashkenazi. **210**, 169
- British Africa*, The State of the Surveys of. in 1905-06. Sir C. Arden-Close. **76**, 255
- British Cartographic Society annual symposium*, Durham 1977. S. T. Shreeve. **188**, 275
- British Isles*, Azimuth Computation in the Old Principal Triangulation of the. H. L. P. Jolly. **53**, 271
- British Isles*, The Early Hydrographic Surveys of the. A. H. W. Robinson. **80**, 60
- British Isles*. A New gravimetric Determination of the Geoid of the. W. E. Featherstone and J. G. Olliver. **254**, 464
- Brogan; J. R.* Notes on the Construction of Sextant Arc Graphs. **102**, 369
- Brooks, L. A. and Fielding, H. M.* Performance of a Sokkisha corner cube reflector. **182**, 390
- Brown, H. C.* Adjustment of Traverse Networks. **120**, 84
- Brown, M. S.* The variation of refraction with elevation angle in an arid climate. **158**, 366
- Brown, Major R. Ll.* Optical Distance Measurements. **4**, 159
- Brown, R. Ll.* The Economic Aspect of Road Surveying. **8**, 82
- Brown, T.* The Expansion of Paper as affecting Bearings. **23**, 53
- Browne, W.E.* The Application of Transformation Factors to the Adjustment of Air Photographs Covering Narrow Land Areas and Coast Lines. **73**, 119
- Brunner, F. K.* On the analysis of geodetic networks for the determination of the incremental strain tensor. **192**, 56
- Brunner, F. K., Trinder, J. C., Rizos, C. and Pollard, J. R.* Surveying Education. Curriculum Development at the University of New South Wales. **247**, 2
- Brunner, F. K. and Hartinger, H.* Signal Distortion in High Precision GPS Surveys. **270**, 531
- Brushfield, T. N. N. and Relton, A. J.* Land Registration in Buganda. **99**, 194
- Bubble, Plate*, Note on the Purpose of the. B. Chiat. **88**, 84
- Bubble, Run of the*. G. T. M. **46**, 492
- Bugs that Bite the Surveyor* : R. E. Fryer. **3**, 121
- Building Monitoring with a Surveying Robot* J. M. Rüeger and G. Alanko. **257**, 138; **258**, 218
- Bullerwell, W., Gordon, D. L. and Cook, A. H.* Crustal Movements in the United Kingdom and their Measurement. **138**, 153
- Buonocore, B. and Vassallo, A.* Astronomical Determination of Azimuth and Latitude by Observation of Two Unknown Stars without Time Measurement and Knowledge of Astronomy. **242**, 233
- Buonocore, B. and Vassallo, A.* Geometrical quadrature of a normal section. **215**, 25

- Burns, E. L. M.* Point- to-Point Working for the Conical Orthomorphic Projection. **11**, 278
- Burrard, Sir S. G.* Geographical Names in Uninhabited Regions and the Controversy over the Mount Everest Map. **16**, 66
- Burrard, Sir S. G.* The Place of Mount Everest in History. **14**, 450
- Burridge, J. H.* Progress of the Geodetic Survey of Newfoundland **28**, 327
- Cadastral Air Survey. J. Salmon. **28**, 334
- Cadastral application of the Hewlett-Packard 9820 desk calculator. J. L. Fleure. **171**, 193
- Cadastral Branch, Technical Instructions for the Gold Coast Survey. **26**, 245
- Cadastral Map. The. C. O. Gilbert. **14**, 496
- Cadastral Mapping. D. R. Hendrikz. **28**, 338
- Cadastral Maps. Digitisation and Geometrical Improvement of Inhomogeneous. D. Morgenstern, K. M. Prell and H. G. Riemer. **234**, 149
- Cadastral plans and the law-the significance of Lee v. Barrey. U.K. M. M. Barrett. **205**, 337
- Cadastral Reform Conference 1990. National. **239**, 54
- Cadastral Reform in the Czech Republic. Five years of. I. Pesl. **276**, 398
- Cadastral Reform: Lessons from a Small Island State. R. Sinon, I. P. Williamson and A. Agumya. **267**, 311
- Cadastral Research Project. P. F. Dale. **167**, 40
- Cadastral Survey and Land Records Office, 1932-45. Work of the. Sir E. M. Dowson and V. L. O. Sheppard. **56**, 42
- Cadastral Survey and Land Records. **61**, 271
- Cadastral Survey and Land Records. A Bibliography of. Sir E. M. Dowson. and V. L. O. Sheppard. **60**. 210
- Cadastral Survey and Land Records, Representative Collection of. Sir E. M. Dowson and V. L. O. Sheppard. **5**, 201
- Cadastral Survey Controls using GPS Surveying in Singapore. Improving. Aw York Bin and Goh Pong Chai. **261**, 488
- Cadastral Survey of Egypt, 1879-1907. The. Sir E. M. Dowson .and V. L. O. Sheppard. **57**, 82; **58**, 122; **59**, 162
- Cadastral survey requirements of developing countries in the Pacific Region-with particular reference to Fiji. The. I. P. Williamson. **206**, 355
- Cadastral Surveying in Nigeria. Strains on A. R. Sule. **276**, 368
- Cadastral Surveying in Palestine 40 Years ago. Not in the Book. Reminiscences of. J. H. Mankin. **148**, 251
- Cadastral surveys in India. H. L. Oswal and V. Singh. **178**, 156
- Cadastral Surveys. Units of Length and their Relation to Areas in. W. K. Wilton. **17**, 165
- Cadastral system in Thailand. A project for upgrading the. P. V. Angus-Leppan and I. P. Williamson. **215**, 2; **216**, 6
- Cadastral system in Trinidad. The, P. Done and M. M. Robertson. **228**, 269
- Cadastral Traverses in the Gold Coast. A. V. Lawes. **58**, 138
- Cadastre and Revenue Generation -A Case Study of Bendel State. The, D. P. C. Osayimwese. **232**, 82

- Cadastre, with special reference to Greater London. Comments on proposals for establishing an underground. P. C. Sherwood. **181**, 316
- Cadastre, A systems view of the. P. F. Dale. **191**, 28
- Cadastre, A System Under Pressure? The Nigerian. N. Field. **239**, 2
- Cadastres and land information systems in common law jurisdiction I. P. Williamson. **217**, 14; **218**, 186
- Cairns in the N. W. Frontier. Jottings. **218**, 201
- Calculating Machine. Least- Square Solutions with a. E. H. Thompson. **20**, 361
- Calculating machine. The Casio FX-1. I. J. Dowman. **167**, 46
- Calculating machine. The Sumlock Microscientist 3200. I. J. Dowman, **169**, 112
- Calculation of Optimisation techniques in curved area. F. A. Ahmed. **210**, 163
- Calculation of the χ^2 and F statistics. A note on the. K. S. Milford. **210**, 179
- Calculation of the Height of Kilimanjaro. The. W. L. Dickson. **91**, 206
- Calculations by microcomputer. Efficient geodetic. R. J. Ord-Smith. **211**, 227
- Calculator. Direct problem geodetic computation using a programmable pocket. D. W. Murphy. **199**, 11
- Calculator. Program cards for the small hand. A. L. Allan. **187**, 233
- Calculators. Automatic functions on desk. J. R. Smith. **176**, 59
- Calendar, Reform of the. G. T. M. **3**, 115
- Calibrating short range EDM instruments. A practical method of. G. Obenson. **172**, 265
- Calibration and Classification of Geodetic Instruments. Test Range for. N. P. Net to and H. Erwes. **267**, 331
- Calibration of an Aga Geotracer. T. O. Crompton. **189**, 311
- Calibration of Gravimeters. The Field. J. F. Bell. **144**, 72
- Calibration of Precise Levelling Staffs by a Procedure Involving the Random Selection of Intervals. E. G. Thwaite. **113**, 109
- Calibration of Prismatic Compasses. A. V. Lawes. **50**, 158
- Calibration. A simplified approach to accurate E.D.M. instrument. E. N. Emenike. **204**, 272
- Calibrator for the Mekometer. A simple. R. H. Bradsell. **186**, 172
- Calvert, C. E. GPS Observations and the Channel Tunnel. **231**, 3
- Camacho, A. G. Tridimensional adjustment with inner constraints in small control networks. **230**, 371
- Cambridge 1979. Some reflections on. J. F. Bell. **196**, 243
- Cambridge Conference 1983. **213**, 333
- Cambridge Conference of Commonwealth Surveyors. The 1979. P. Miller. **196**, 249
- Cambridge radio telescope-completion of survey for new. **159**, 43
- Cambridge-the Commonwealth survey officers conference 1971. **163**, 221
- Camera imagery of Sudan. An evaluation of spacelab metric. L. J. Rackham. **224**, 55
- Camera Ready Copy for *Survey Review*. **260**, 423
- Cameron's Plateau, The Quest for. W. H. E. Neil. **71**, 39
- Camm, G. L. and Pye, N. A Semi-Graphic Construction for the Conical Orthomorphic Projection with One Standard Parallel. **93**, 316
- Camp, Survey: Some Notes on the Making of Land Use Maps. H. Biesheuval. **90**, 159
- Canada-United States Boundary Commission, The. N. J. Ogilvie. **6**, 249
- Canada. Land Tenure in. F. H. Peters. **51**, 200

- Canada. Surveying and Mapping in. F. H. Peters. **2**, 78
Canada, The Geodetic Survey of. J. L. Rannie. **74**, 146
Canada. Astronomical field tables, for use of the land surveyors of. C. A. Biddle. **169**, 136
Canadian Cartography. J. H. McMath. **13**, 407
Canadian Great Plains. The surveyor as land manager with some observations on the Dominion Land Survey (D L S). Grid and land management in the. R. D. Revel. **216**, 96
Canadian Shoran Effort, 1949-1953. J. E. R. Ross. **92**, 242; **93**, 290
Cape Bar "A" and the Metre-Foot Relation, The. D. R. Hendrikz and P. M. Smuts. **75**, 202
Captain William Bligh, R.N., Hydrographic Surveyor. A. H. W. Robinson. **85**, 301
Carter, W. E. An elementary introduction to radio interferometric surveying. **199**, 17
Cartesian Co-ordinates. Point Projection of Topographic Surface onto the Reference Ellipsoid of Revolution in Geocentric. N. Crocetto. **250**, 233
Cartographic conference for Africa, Addis Ababa October-November 1972. The third United Nations. J. W. Wright. **169**, 125
Cartographic conference for Asia and the Far East: Tehran, October- November 1970-The Sixth United Nations. J. W. Wright. **160**, 84
Cartographic Society annual symposium Durham 1977. British. S. T. Shreeve. **188**, 275
Cartographic Techniques, Recent Trends in. I. E. Sleep. **104**, 73
Cartography in Palestine of 1917-1918. Innovative. D. Gavish and C. Biger. **208**, 81
Cartography. Automated. J. G. Olliver. **145**, 139
Cartography-report on the British Cartographic Society symposium at Southampton September 14th-16th, 1973. Automatic. J. W. Wright. **171**, 236
Cartoon. J. C. T. Willis. **211**, 226
Cascade model for the removal of drift from gravimetric data. I. B. Osazuwa. **228**, 295
Casio FX-1 calculating machine. I. J. Dowman. **167**, 46
CASLE initiative. Land information management -a. P. F. Dale. **228**, 263
CASLE -The Commonwealth Association of Surveying and Land Economy. C. Dann. **269**, 414
Caspary, W. and Borutta, H. Robust estimation in deformation models. **223**, 29
Cassini to the Transverse Mercator Projection. The Conversion of Co-ordinates from the. C. Conn. **116**, 274
Cassini-Gauss Transformation. A Direct Method. E. H. Thompson. **18**, 236, **20**, 354
Cassini-Soldner Projection Correction Terms. Nomographic Treatment of the. H. S. Williams. **124**, 266
Catenary Apparatus for Minor Control Traverses in Rough Country, A Simple Form of. J. W. Wright, **70**, 344
Catenary Taping. Practical Sag Correction in. A. V. Lawes. **50**, 161
Catenary Taping. Practical Sag Correction in. H. F. Rainsford. **45**, 402; **53**, 278
Cen Minsyi and Lu Baixiang. A Problem in the Application of the Error Ellipsoid. **250**, 239
Centenary. Cyprus survey. J. R. G. Harrop. **192**, 86
Centering an instrument. A note on. A. L. Allan. **186**, 176
Central Projection of the Spheroid and Surface Lines. The. B. R. Bowring. **265**, 163

- Centring, Constrained. An Investigation of Systems of. P. Berthon Jones. **127**, 22.
- Ceylon Triangulation. Notes on the Base Lines of the. J. E. Jackson. **3**, 129
- Ceylon, First-Order Traverses in. J. E. Jackson. **44**, 322
- Ceylon, Mapping Out of Crown Lands in. G. B. King. **83**, 194; **84**, 242
- Ceylon, Some Surveys of Rivers in. H. A. S. Smith. **61**, 255
- Ceylon, The Geodetic Levelling of. T, Y. Price. **5**, 220
- Ceylon, The Year in. G. K. Thornhill. 1933, **15**, 23; 1934, **18**, 242; 1935, **22**, 481
- Ceylon, Tidal Observations in. J. E. Jackson. **20**, 325
- Chain, Single, Directions and Angles in a. G. H. Menzies. **83**, 219
- Chaining in Australia. H. Law. **168**, 90
- Chambers, L. G.* Direct Use of Air Photos for Cadastral Purposes .in Zanzibar. **71**, 2
- Chandler, J. H.* What is ISI and why is it important? **277**,505
- Chang, C. C. and Tseng, C. L.* A Geocentric Reference System in Taiwan. **273**,195
- Chang, C. C.* Estimates of Horizontal Displacements Associated with the 1999 Taiwan Earthquake. **278**, 562
- Change of Title and Subscription Rates. E.S.R. **126**, 338
- Chania, Crete, 1992. International Workshop on. **248**, 123
- Channel Tunnel. GPS Observations and the. C. E. Calvert. **231**, 3
- Chart for the analysis of observations in a gravimetric network. The use of the graphic. I. B. Osazuwa and D. E. Ajakaiye. **221**, 345
- Charts for the Reduction of Heights from Aneroid Readings Based on a Standard Atmosphere and Lapse-Rate. J. C. Bhattacharji. **115**, 222
- Chebyshev Adjustment of a geodetic levelling network. The, M. B. Ebong. **220**, 315
- Check for a Triangulation Computation, A General. B. Cvetkov. **108**, 278
- Check on the Computation of the Sum of the Squares of the Residuals of Observations of a Single Quantity, A Simple. A. L. Allan. **124**, 279
- Checking Reduction of Normal Equations. B. Goussinsky, **70**, 351
- Checking Technique for High Precision GPS Antennas. A, A. K. Chong and Kam, B. B. **277**, 464
- Checking Traverse Computations. B. Goussinsky. **49**, 12
- Checks and Short Cuts in the Computation of the Sum of Squares of Numbers. T.Vincenty. **137**, 125
- Cheetham, G.* The Post-War Programme of the Ordnance Survey of Great Britain. **57**, 93
- Chekhoversky, A.M. and Golubev, A. N.* Some Investigations into Interferometric Methods for Geodetic Metrology. **268**,350
- Chen Yong qi.* Identification of Deformation Models in Space and Time Domain. **262**, 518
- Chen, W. and Cross, P. A.* Integration of GPS and an Inertial System for Precise Surveying Applications. **238**, 375
- Chen, Y. Q., Liu, Q. W. and Li, Y. X.* The Estimation of Crustal Deformation in the Shanxi Area, China, from the 1996 and 1997 GPS Observations. **275**, 349
- Chiay, B.* Note on the Purpose of the Plate Bubble. **88**, 84
- Chiay, B.* Notes on the Position Line. **97**, 137
- Chiay, B.* Semi-Graphic Adjustment and Trilateration. **130**, 157
- Chiay, B.* Symposium on the use of photographic methods in highway and traffic engineering. **166**, 377

- Chiat, B.* The Adjustment of Semi-Precise Traverses. **115**, 230
Chi-Hung, L. and *Kui-Wai, L.* Some methods for underwater position fixing by acoustics. **154**, 183
China, On the Lambert Conformal Projection Applied in. *J. T Fang*. **70**, 357; **71**, 30
Choice of Map Projections. *The. W. G. V. Balchin*. **92**, 263
Cholesky Method of Solution of Normal Equations. A Proof of the. *J. A. Weightman*. **113**, 139
Chong, A. K. and Kam, B. B. A Checking Technique for High Precision GPS Antennas. **277**, 464
Chong, A. K. and Dewhurst, M. A Statistical Analysis of Real Time Long Range GPS Measurements via Cellular Phone Communications. **266**, 212
Chord-arc method of calculating geodesics. A refined. *J. W. R. Day*. **226**, 191
Christie, R. R. A New Geodetic Heighting strategy for Great Britain. **252**, 328
Christie, R. R. and Macdonald, A. S. From Miles to Millimetres. The Story of Geodesy at Ordnance Survey 1791-1991. **241**, 126
Chronograph Times, Abstracting. *A. L. Allan*. **115**, 237
Chrzanowski, A., Robinson, G. L., Greening, W. J. T. and Silver, E. C. Geodetic Control for Underground Construction of the Superconducting Super Collider. **257**, 177
Chung-Chi, T. On phased adjustment. **156**, 282; **157**, 298
Churchill, J. H. The Application of a Red Filter to Surveying Instruments. **7**, 32
Cimiotti, J. C. Adjustment of a quadrilateral. **162**, 170
Circle of Error. Note on the. *Hsuan-Loh Su*. **114**, 168
Circles. Decimal degree. *J. R. Smith*. **169**, 128
Circuit Closures in the Nigerian Levelling. Normal Gravity and. *M. B. Ebong*. **233**, 115
Circular Arcs of any Radius, A Drafting Machine for. *H. L. P. Jolly*. **47**, 2.
Circular Dividing. The Art of Original. *E. W. Taylor*. **49**, 99
Circum-Almucantar Observation for Azimuth. *A. G. T. Thornton-Smith*. **112**, 79
Circum-elongation Observations for Azimuth. The Accuracy of. *B. P. Opie*. **137**, 107; **138**, 171
Circum-meridian Altitudes, Note on the Reduction of. *L. P. Lee*. **78**, 366
Circum-Meridian Altitudes. Prof. *A. Thorn*. **106**, 170
Civic tower at Modena. Determination of the secular movements of the axis of the. *P. Russo*. **207**, 21
Civil Engineering Projects. The Use of the Geodimeter on Routine. *R. B. McVilly*. **138**, 146
Civilian Surveyor. The Military Survey Service and the. *R. C. A. Edge*. **90**, 152
Clappison, N. O. Lateral Displacement of Signals Observed. **38**, 496
Clappison, N. O. Temperature Errors in Precise Traversing. **62**, 297
Clappison, N. O. Traversing with Theodolite and Chain. **41**, 156
Clark, J. S. and Johnson, L. O. C. Standardisation of Steel Surveying Tapes. **81**, 118
Clark, J. S. and Johnson, L. O. C. Measurement of Temperature of Geodetic Surveying Tapes. **89**, 110
Clark, J. S. Re-Measurement of the Old 10-ft. Length Standards of the Ordnance Survey, and Some Notes on the Relative Stability of Certain Standards of Length. **90**, 166

- Clarke Formulae for Latitude, Longitude and Reverse Azimuth, with Corrective Terms for Use on Very Long Lines. H. F. Rainsford. **56**, 53; **57**, 102
- Clarke, Alexander Ross: A Great British Geodesist. Sir C.F. Arden-Close. **49**, 107
- Clarke, F. L. and Tan, C. K.* Application of Graph Theory to the Ordering of Large Survey Networks. **235**, 195
- Clarke, F. L.* Determination of a local geodetic datum from astro-geodesy. **196**, 268
- Clarke's Formulae. A Note on. J. E. Jackson. **90**, 183
- Classification of Map projections, The Nomenclature and. L. P. Lee. **51**, 190
- Classification of Map Projections, on the. B. Goussinsky, **80**, 75
- Claude Reignier Conder (1848- 1910) and the Survey of Palestine. Sir C. F. Arden-Close. **52**, 234
- Clayton, P. A.*. The Slide-rule in Coast-line Mapping. **34**, 195
- Cleak, D. S.* The Training of Africans for Survey in Northern Rhodesia. **21**, 413
- Cleak, D. S. : Silting and Island Growth in the Zambezi near Livingstone.* **17**, 158
- Clendinning, J.* The Year 1930-31 in the Gold Coast. **1**, 35
- Clendinning, J.* Note on a Method of Interpolation from Traverse Tables to Correct for Single Seconds of Bearing. **4**, 157
- Clendinning, J.* Declination with the Connolly Compass. **8**, 78
- Clendinning, J.* Mathematical Theory of the Transit Theodolite. **42**, 194; **46**, 462
- Clendinning, J.* Standardizing Equipment of the Gold Coast Survey Department.. **19**, 258
- Clendinning, J.* The Modified Meridian Distance in the Conical Orthomorphic Projection. **43**, 274
- Clendinning, J.* The Variation of the Atmospheric Coefficient of Refraction. **18**, 241
- Clendinning, J.* Notes on Geodetic Work in the Gold Coast, **11**, 297
- Clendinning, J.* Signal Lamps. **7**, 15
- Clendinning, J.* The Years 1935-6 and 1936-7 in the Gold Coast . **26**, 234
- Clendinning, J.* A Novel Method of measuring the Coefficient of Expansion of Invar. **38**, 480
- Clendinning, J.* Conformal Representation. **31**, 38
- Clifford, E. H. M* Quadripod. **15**, 55
- Clifford, E. H. M.* A Stellar Programme for Time Observations. **20**, 343
- Close, Sir C.* A Fifty-Years Retrospect. **4**, 146; **5**, 194; **6**, 242; **7**, 2; **8**, 66; **9**, 130; **10**, 194; **11**, 258; **12**, 322; **13**, 386
- Closed Expressions for Computing all the Elements of the Clothoid Transition Curve.
Almost exact. G. J. Thornton-Smith, **127**, 35
- Close-range Optical 3D Measurement for Industrial and Engineering Applications.
Current Trends in. M. R. Shortis and C. S. Fraser. **242**, 188
- Clothoid Transition Curve, Almost Exact Closed Expressions for Computing all the Elements of the. G. J. Thorton-Smith. **127**, 35
- Co/eman, R., Ananga, N. and Rizos, C.* Zero-Epoch Heights and Height Velocities. **205**, 307
- Cole, J. H.* The Adjustment of a First Order Levelling Network. **100**, 265
- Coast and Geodetic Survey, The United States: Its Work and Products. R. F. A. Studds. **81**, 98; **82**, 146
- Coast-line Mapping, The Slide-rule in. P. A. Clayton. **34**, 195

- Coefficient of Terrestrial Refraction. Evaluation of. A. J Morley. **40**, 76
Coefficient of Terrestrial Refraction. Trigonometrical Heights and the. B. L. Gulatee. **83**, 224
Coincidence Reading Geodetic Tavistock Theodolite. The. E. W. Taylor. **101**, 298
Cole, J. H. Computation of Distances of Long Arcs for Radio Purposes. **83**, 214; **84**, 264
Cole, J. H. Computation of Distances of Long Arcs for Radio Purposes. **59**, 191
Cole, J. H. Horizontal Angles in Triangulation: Some Practical Suggestions
Regarding their Observation and Adjustment. **87**, 36
Cole, J. H. Point to Point Computation of Geographical Co-ordinates of Long Lines. **66**, 166
Coleman, R. and Xiaoli Ding. Adjustment of Precision Metrology Networks in Three Dimension. **259**, 305
Collier, P. A. and Croft, M. J. Heights from GPS in an Engineering Environment. **263**, 11; **264**, 76
Colliery surveying practice with particular reference to the Wild GAK-1 gyro attachment.
The introduction of gyrotheodolites into British. D. J. Hodges. **194**, 157
Collimation. *Vide Instruments*. A. V. Lawes. **37**, 429
Collins, M. O. Map Maintenance, Policy and Technique. **32**, 67
Collocation. An introduction to least-squares. A. Ruffhead. **224**, 85
Colonial and overseas surveyors. D. E. Warren. **200**, 97
Colonial Development, Survey for. M. Hotine. **77**, 290
Colonial Geodetic and Topographical Surveys. Directorate of. **61**, 271
Colonial Research Committee, Progress Report 1942-43. **53**, 297
Colonial Survey Department under a New Master, Three Years and More of the
Rising Sun, or a. P. H. Bonnet. **70**, 330
Colours Question, The, T. H. Corfield. **16**, 81
Colours Question, The, A Baffling Frontier Problem. T. H. Corfield. **13**, 404
Combined Adjustments of Angles and Distances. H. F. Rainsford. **150**, 348
Commonwealth Survey Officer's Conference: August 1967. **147**, 227
Combined Projection, A. Sir C. F. Arden-Close. **49**, 135
Combined solar emphemeris and azimuth program. P. Done. W. R. Mohammed and M.
Jones. **224**, 95
Commentary on Goussinsky's Tables. A. Professor a. H. Menzies. **118**, 374
Commercial surveys using prototype Mekometers. P. F. Green, **173**, 317
Commonwealth Association of Surveying and Land Economy. CASLE. The. C. Dann.
269, 414
Commonwealth survey officers conference 1971 at Cambridge. **163**, 221
Commonwealth Survey Officers Conference, 1955. The. **99**, 202; **101**, 290
Commonwealth Survey Officers' Conference, August 1959. **116**, 246; **117**, 326
Commonwealth Survey Officers, 1963, The Conference of. J. W. Wright. **131**, 202;
132, 250
Commonwealth Survey Officers, Conference of, 1947. **67**, 186; **68**, 248
Commonwealth Survey Officers, Conference of, 1951. **83**, 231; **84**, 248
Commonwealth Survey Officers. The Conference of. **180**, 280
Commonwealth Surveyors. The 1979 Cambridge Conference of. P. Miller. **196**, 249

- Communal Family Tenure -An Examination of Scotland's Crofting and Zimbabwe's Communal Area Tenure. J. Drummond and D. Goodwin. **270**, 482
- Comparison of methodologies for the calculation of latitude by means of the astrolabe. S. Troisi and L. Turturici. **220**, 322
- Comparison of the precision of traverses adjusted by Bowditch rule and by least squares. P. Berthon Jones. **164**, 253
- Comparison of the Specifications of Some Categories of Theodolites and Levels. A. **116**, 291
- Comparison of Three Methods Used for Calculating the Longitude from a Pair of Well-Balanced Stars. A. J. G. Freislich. **96**, 75
- Comparisons of gravimetric geoid results using mean gravity anomalies and potential coefficients in the South Australian Region. J. R. Gilliland. **215**, 41
- Compass, Declination with the Connolly. J. Clendinning. **8**, 78
- Compensation as a Consequence of two kinds of Rock Structure. G. F. S. Hills. **24**, 68
- Compensation of Traverses when Lengths only are Corrected. A. E. Young. **43**, 270
- Compensation on the Pratt Hypothesis. Attraction of the. G. T. M. **24**, 85
- Compensation, Attraction of the. A Note. G. T. M. **25**, 159
- Compilation of a Reconnaissance Map of Alexander Land, Antarctica, from Trimetrogon Air Photographs. The. W. J. Searle. **119**, 2
- Compilation of an Admiralty Chart, The Hydrographic Dept. of the Admiralty. G. B. Stigant. **88**, 52
- Compilation of the Land Register of England and Wales. Sir E. Dowson and V. L. O. Sheppard. **72**, 56
- Complex Numbers. The Transverse Mercator Projection -A Solution by. B. R. Bowring. **237**, 325
- Computation and adjustment by geometric network relaxation. K. N. Gregg. **170**, 145
- Computation of conformal projections. L. P. Lee. **172**, 245
- Computation of Distances of Long Arcs for Radio Purposes. J. H. Cole. **83**, 214; **84**, 264
- Computation of Distances of Long Arcs for Radio Purposes. J. H. Cole. **59**, 191
- Computation of Geodetic Areas of Standard Map Sheets in Victoria, The. E. T. Homewood. **101**, 309
- Computation of Geographical Co-ordinates of Long Lines, Point to Point. J. H. Cole. **66**, 166
- Computation of local anomalies of the vertical's deflection in geodetic networks. V. Achilli and P. Baldi. **205**, 327
- Computation of Mean Free-Air Gravity Anomalies by Bjerhammar's Deterministic and Collocation Methods over Scandinavia. H. Nahavandchi. **278**, 513
- Computation of resection results by least squares. On the. J. A. Corbyn. **210**, 147
- Computer method for *a priori* investigation of the electro-optical distance meter additive constant error due to infra-red source inhomogeneities. A. M. Rezulski and A. Zakrzewski. **208**, 63
- Computation of Tellurometer Work, Various Aspects to the. J. L. Dixon. **133**, 323
- Computation of the foot-point latitude in co-ordinate transformation. A. C. Edoga. **202**, 192

- Computation of the Sum of the Squares of the Residuals of Observations of a Single Quantity, A Simple Check on the. A. L. Allan. **124**, 279
- Computation Triangulation, A General Check for a. B. Cvetkov. **108**, 278
- Computation, Resection, A Method for. K. R. Basu. **109**, 326
- Computational efficiency. Unbiased estimation of variance-covariance components in condition adjustment with special emphasis on. L. E. Sjoberg. **215**, 15
- Computational formulae for the Lambert Conformal Projection. C. W. B. King. **229**, 323; **230**, 387
- Computational methods in geometrical geodesy. Report on the international symposium on. P. A. Cross. **171**, 237
- Computations in Low Latitudes, Conical Orthomorphic Projection : Simplification of. A. V. Lawes. **67**, 220
- Computations of Ground Control for Air Surveys at Large Scales. C. W. B. King. **113**, 128
- Computations of simple figures on sphere and spheroid. C. W. B. King. **162**, 146
- Computations using Shape Functions. Area. D. R. Twigg. **251**, 293
- Computations. The surface controlled spatial system for survey. B. R. Bowring. **190**, 361
- Computations. Weights for geopotential numbers in adjustment. S. Subramaniam. **202**, 244
- Computer Aided Learning in Surveying. M. J. Smith and G. Roberts. **262**, 546
- Computer era. Trends in survey education evolving in the. L. Stoch. **168**, 72
- Computer method for *a priori* investigation of the electro-optical distance meter additive constant error due to infra-red source in- homogeneities. A, M. Rezulski and A. Zakrzewski. **208**, 63
- Computer simulation as a basis for investigating major geodetic networks. B. Shmutter and R. Adler. **160**, 68
- Computer. Analogue. for Calculating and Adjusting Trilateration Nets. H. G. Jerie. **126**, 351
- Computer. Jerie Analogue. Notes on the Use of for Certain Cadastral Surveys in Kenya. A. G. Dalgleish. **130**, 182
- Computer. A Design for Triaxial Number Facilities on Calculator or. B. R. Bowring. **239**, 34
- Computer. Survey Computations on a Small. C. W. B. King. **136**, 50; **137**, 120
- Computer-A Cog in the Survey Machine, The. H. R. Rainsford. **44**, 324
- Computers. The Transverse Mercator Projection-simple but accurate formulae for small. W. B. P. Williams. **205**, 307
- Computers. resection. Desk top. T. Vincenty. **168**, 80
- Computing a Resection. J. E. Jackson. **54**, 328
- Computing the Error in the Co-ordinates of a Point Fixed from Three Fixed Points. A Simple Method of. C. E. Nevald. **119**, 32
- Computing. Some Notes on. R. W. Pring. **88**, 57; **89**, 115
- Concept of least count in measurement. The. D. Jeyanandan. **218**, 196
- Concerns related to GPS-derived Geoid determination. J-T. Lee and D. F. Mezera. **276**, 379
- Concluded Lengths. The Use of in Trilateration Adjustment. B. P. Murphy. **118**, 369

- Conder. Claude Reignier (1848-1910) and the Survey of Palestine. Sir C. F. Arden-Close. **52**, 234
- Condition Equations for Linear Measurements. Two methods of forming. A. L. Allan and J. R. Hollwey. **136**, 77
- Condition Equations for Trilateration and Mixed Figures. Use of the Area in Formation of the. A. Sabbah. **142**, 361
- Condition Equations in the Adjustment of Triangulation figures. Implicit. B. Goussinsky. **61**, 264
- Conditional Equations Required for the Adjustment of a Trigonometrical Net. The Number of. B. Cvetkov. **103**, 24
- Conditions for the Construction of a Conformal Projection. A. J. Morley. **47**, 30 Conference 1983. Cambridge. **213**, 333
- Conference of Commonwealth Survey Officers. **180**, 280
- Conference of Commonwealth Survey Officers, 1947. **67**, 186; **68**, 248
- Conference of Commonwealth Survey Officers, 1963. The. J. W. Wright. **131**, 202; **132**, 250
- Conference of Commonwealth Survey Officers, 1951. **82**, 231; **83**, 248
- Conference of Empire Survey Officers. "Quartus Conscriptor". **19**, 299
- Conference. Commonwealth Survey Officers', August, 1959. **116**, 246; **117**, 326
- Conferencing. H. St J. L. Winterbotham. **23**, 12
- Conformal map projection with specified scale at selected points. L. P. Lee **178**, 187
- Conformal map projections. A note on. E. H. Thompson. **175**, 17
- Conformal mapping of the triaxial ellipsoid. J. P. Snyder. **217**, 130
- Conformal mapping projection with minimum scale error. W. I. Reilly. **168**, 57
- Conformal mapping projection with minimum scale error-part 2: scale and convergence in projection co-ordinates. W. I. Reilly and H. M. Bibby. **176**, 79
- Conformal mapping projection with minimum scale error -part 3: transformation of co-ordinates and examples of use. W. I. Reilly and H. M. Bibby. **181**, 302
- Conformal Projection. Computational formulae for the Lambert. C. W. B. King. **229**, 323; **230**, 387
- Conformal Projection. Azimuth and Distance Correction for the Geodetic Lines on the. J. T . Fang. **75**, 218
- Conformal Projection. Conditions for the Construction of a. A. J. Morley. **47**, 30
- Conformal Projection. Lambert, as Applied in China, On The. J. T. Fang. **70**, 357, **71**, 30
- Conformal projections. The computation of. L. P. Lee. **172**, 245 :
- Conformal Representation. J. Clendinning. **31**, 38
- Conformal Transformation of a Network of Triangulation. The. D. R. Hendrikz. **85**, 319
- Conformal Transformations by Double Interpolation. A. J. Morley. **52**, 245
- Conic conformal to T.M. co-ordinates. Transforming. B. Shmutter. **201**, 130
- Conical Orthomorphic Projection : Simplification of Computations in Low Latitudes. A. V. Lawes. **67**, 220
- Conical Orthomorphic Projection with One Standard Parallel, A Semi-Graphic Construction for the. Norman Pye and G. L. Camm. **93**, 216

- Conical Orthomorphic Projection, Grid Bearings and Distances on the. J. Clendinning. **48**, 68; **51**, 211; **52**, 248
- Conical Orthomorphic Projection. The Modified Meridian Distance in the. J. Clendinning. **43**, 274
- Conical Orthomorphic Projection. The (t -T) Correction for the Lambert No. 2. K. M. Papworth. **56**, 68
- Conical Orthomorphic Projections. A Spiral Transformation for the, and a Graphical Construction. F. George. **115**, 215
- Conical Projection, The Lambert Orthomorphic, Angular Corrections for the. B. L. Gulatee, **62**, 311
- Conn, C.* The Conversion of Co-ordinates from the Cassini to the Transverse Mercator Projection. **116**, 274
- Connection of India. Siam and Malaya Triangulations. B. L. Gulatee. **74**, 145
- Connolly, T. F.* Portable Standard Magnetic Compasses. **1**, 21
- Considerations for land registration improvement for less developed countries. L. C. Holstein. **223**, 19
- Constrained Centring. An Investigation of Systems of. P. Berthon Jones. **127**, 22
- Constraint elimination method for sequential solution of observation equations of free networks. A. Perelmutter. **212**, 243
- Construction of the Games Arenas for the 1994 Winter Olympics in Norway. T. Valstad. **255**, 31
- Construction of the Test Slab of the Laboratory of Reinforced Concrete Structures of the University of Thessaloniki. Measurements for the. A. Badellas, G. Penelis and P. Savaidis. **238**, 404
- Constructions for Cube Roots. B. R. Bowring. **253**, 441
- Contour interpolation. A note on. L. Stoch. **195**, 223
- Contouring using Crucial Ground Points. Non-linear. F. A. Ahmed. **231**, 15
- Contributions to the *E.S.R.*, The Late Captain McCaw's. G. P. Lenox-Conyngham., J. Clendinning. **55**, 28
- Contributors and Potential Contributors. **68**, 234
- Control by Tellurometer Radiations. The Establishment of. P. F. Dale. **147**, 206
- Control Network. GPS Station Selection in an Existing Primary. Szu-Pyng Kao. **251**, 279
- Control Points, Distorting a Network to Fit: An Alternative Expression for the Schols Adjustment. J. A. Weightman. **86**, 372
- Control. The establishment of standards for lower order horizontal. R. Adler, H. Papo and A. Perlmutter. **194**, 152
- Convenient Factorisation of Sodano's Formulae to the Second Order. J. W. R. Day. **263**, 2
- Conventions and Generalized Formulae for the Astronomical Triangle. L. P. Lee. **94**, 372
- Conventions or Use in Field Astronomy, A System of. J. G. Freislich. **90**, 174
- Convergence of Meridians, The. L. P. Lee. **61**, 267
- Convergence of the Variance of Unit Weight in a Levelling Network Adjustment. Rongshin Hsu. **260**, 404
- Convergence on the Transverse Mercator Projection for the Whole Spheroid, Scale and. C. P. Lee. **127**, 49

- Conversion of Angular Quantities. N. Vucetic, S. Petrovic, N. Francula and M. Lapaine. **237**, 354
- Conversion of Co-ordinates from the Cassini to the Transverse Mercator Projection. The. C. Conn. **116**, 274
- Conversion of Co-ordinates from the Cassini to the Transverse Mercator Projection. The. K. M. Papworth. **98**, 177
- Conversion Ratio, The Ordnance Survey Foot/Metre. E. H. Thompson. **84**, 280
- Conversions between geographical and transverse Mercator co-ordinates. N. J. Field. **195**, 228
- Cook, A. H.* The Achievements of Sir George Everest in Geodesy. **238**, 368
- Cook, A. H., Bullerwell, W. and Gordon, D. L.* Crustal Movements in the United Kingdom and their Measurement. **138**, 153
- Cooling of the Earth by Convection. The. G. I. S. Hills. **34**, 207
- Cooper, J. T.* Surveys for a mass transit system in Hong Kong. **172**, 257
- Cooper, M. A. R.* A singular braced quadrilateral. **198**, 351
- Cooper, M. A. R.* *A priori* and *a posteriori* analysis, or game and guess. **201**, 137; **206**, 397
- Cooper, M. A. R. and Leahy, F. J.* An adjustment of a second-order network. **187**, 224
- Cooper, M. A. R.* Edward Worsop; From The Black Art and Sundrie Errours to True Geometricall Demonstration. **248**, 67
- Cooper, M. A. R.* The Geomat range of surveying instruments from VEB Carl Zeiss Jena. **168**, 85
- Cooper, W. G. G.* Notes on Levelling with the Aneroid Barometer. **2**, 71
- Co-ordinate Data for the New South African Datum-a Pilot Study. Transformation of. C. L. Merry and J. F. Whittal. **268**, 379
- Co-ordinate transformation. Computation of the foot-point latitude in. A. C. Edoga. **202**, 192
- Co-ordinate Transformation. The role of the Geoid in. Hussein Abd-Elmotaal and Mohammed El-Tokhey. **263**, 31
- Co-ordinate Transformations. OSGB36/WGS84 D. R. Twigg. **275**, 292
- Co-ordinates, The Conversion of, from the Cassini to the Transverse Mercator Projection. C. Conn. **116**, 274
- Co-ordinates. Area cutoff by. N. F. Danial. **212**, 269
- Co-ordinates. Improving a Horizontal Datum Without Changing the. B-G. Reit. **272**, 103
- Co-ordinates. Point Projection of Topographic Surface onto the Reference Ellipsoid of Revolution in Geocentric Cartesian. N. Crocetto. **250**, 233
- Co-ordinates. Spherical Polygon with Direct Determination of Vertices Geodetic. V. Sciarrone and A. Vassallo. **233**, 109
- Co-ordinates. Transformation from spatial to geographical. B. R. Bowring. **181**, 323
- Coordination of a Known Station in Precise Relative Positioning. The Importance of Accurate. M. C. Breach. **238**, 398
- Coordination of Signalised Points on 1/40,000 scale Photography. An Experiment with the. J. A. Eden. **135**, 37
- Coordinatographs. Analytical Restitution of Detail-Surveying for Automatic. N. I. Levy. **135**, 2
- Corbett, S. I. and Cross, P. A.* GPS Single Epoch Ambiguity Resolution. **257**, 149

- Corbyn, J. A.* On the computation of resection results by least squares. **210**, 147
- Corfield, T. H.* The Colours Question. **16**, 81
- Corfield, T. H.* The Colours Question : A Baffling Frontier Problem. **13**, 404
- Corfield, T. H.* The Stereographic Solution of the Spherical Triangle. **12**, 345
- Cornish, R. J.* Trigonometrical Levelling. **119**, 27; **155**, 230
- Corrected Azimuth and Time. Two Stars in the same "Vertical" Plane. G. T. M. **39**, 41
- Correction for the Exponential Lapse Rate. A. Aneroid Heights. Colonel D. R. Crone. **110**, 377
- Correction in Catenary Taping, Practical Sag. H. F .Rainsford. **45**, 402
- Correction, Curvature in Precise Azimuth Observations upon a Close Circumpolar Star at any Hour Angle. The. G. J. Thornton-Smith. **80**, 65
- Correction. Practical Sag in Catenary Taping. A. V. Lawes. **50**, 161
- Correction. Practical Sag. in Catenary Taping. H. F. Rainsford. **53**, 278
- Correction. Sag. of a Steel Surveying Tape. A Multiple Alignment Nomogram for the. R. Sacks. **68**, 261
- Correction. The (t -T). for the Lambert No. 2 (Conical Orthomorphic) Projection. K. M. Papworth, **56**, 68
- Correction. to Bearing for Height of Signal. G. T. McCaw. **48**, 57
- Corrections to Bomford's " Geodesy ". G. Bomford. **92**, 288
- Corrections to the Tension in a Surveying Tape for the Effect of the Total Load between the Measuring Head and the Straining Weight. M. Pearce. **100**, 262
- Corrections. Angular. for the Lambert Orthomorphic Conical Projection. B. L. Gulatee. **62**, 311
- Corrections. Curvature and Refraction. to Vertical Angles. Examples of. S. E. Evans. **91**, 231
- Correlated data. Direct mean versus weighted mean of. L. Sjöberg. **199**, 3
- Corrigenda. **47**, 48; **51**, 224; **53**, 304; **56**, 79; **60**, 240; **62**, 320; **65**, 136; **72**, 95; **75**, 239; **76**, 288; **79**, 48; **84**, 288; **85**, 336; **87**, 48; **88**, 96; **94**, 384; **99**, 240; **106**, 192; **107**, 240; **108**, 288; **110**, 384; **116**, 292; **118**, 388; **120**, 96; **131**, 248; **133**, 344; **134**, 392.
- Cosat Group. Orthogonality and Symmetry. **242**, 221
- Cosmos* system. Photographic image analysis with the. R. S. Stobie. **195**, 231
- Cotton, H. and Bennett, J. M.* Traverse Reduction with an Electronic Digital Computer. **97**, 111
- Couchman, H.* A design of an earth movement survey system at Savage River. **178**, 173
- Countersection Some Problems of Resection and. G. T. M. **43**, 297; **44**, 340; **45**, 41
- Countersection, A Case of. G .T .M . **42**, 218
- Courses for Commonwealth Surveyors, The School of Military Survey and its. L. J. Harris. **73**, 106
- Covell, P. C. and Rüeger, J. M.* Multiplicity of cyclic errors in electro-optical distance meters. **203**, 209
- Cox, B. J.* The Hewlett-Packard 35 calculator. **166**, 382
- Cox, R. C.* 1780-1980 The development of survey instrumentation. **219**, 234; **220**, 283
- Cox, R. C.* Men and instruments. **188**, 243
- CP1-a new photogrammetric plotter. I. Newton. **167**, 43

- CR204: Baseline test results. *The Geomensor*. A. H. Dodson and P. Fleming. **229**, 351
- Crane, S. A. (et al)* Britdoc. 1982 Doppler campaign results. **210**, 169
- Craster, J. E. E.* Determination of Time and Latitude by the Equal Altitude Method with the Theodolite. **2**, 57
- Craster, J. E. E.* Cylindrical Map-projections. **14**, 493
- Crawford, O. G. S.* Primitive English Landmarks and Maps. **1**, 3
- Criteria for the Determination of Azimuth by Observing Stars at Elongation. A. F. Smith. **121**, 136
- Critical Support for Bowditch. G. T. M. **38**, 497
- Crocetto, N.* Point Projection of Topographic Surface onto the Reference Ellipsoid of Revolution in Geocentric Cartesian Co-ordinates. **250**, 233
- Croft, M. I. and Collier, P. A.* Heights from GPS in an Engineering Environment. **263**, 11
- Crompton, T. O.* The Royal Society discussion meeting on satellite doppler tracking and geodetic applications. **192**, 92
- Crompton, T. O.* Calibration of an Aga Geotracer. **189**, 311
- Crompton, T. O.* Geodetic surveys in India; fifty years on. **200**, 79
- Crone, D. R.* Aneroid Heights. A Correction for the Exponential Lapse Rate. **110**, 377
- Crone, D. R.* Notes on Terrestrial Altimetry. **122**, 160
- Crone, D. R.* Correction of Plane-table Heights for Curvature of the Earth and Atmospheric Refraction. **20**, 350
- Crone, D. R.* Aerial Camera Calibration. **27**, 272
- Crone, D. R.* Air Survey. The Adjustment of Strip Plots. **72**, 82
- Crone, D. R.* Air Survey. The Rand Method of Heighting from Near Vertical Photographs. **82**, 163; **83**, 205
- Crone, D. R.* Heights by Aneroid Barometer. **69**, 311
- Crone, D. R.* The Accuracy of Topographical Maps. **88**, 64
- Crone, D. R.* The Errors in a Radial Line Plot of Air Photographs. **77**, 306
- Crone, D. R.* The Height of Lake Tana, Ethiopia. **99**, 220
- Crone, D. R.* Some Factors in Determining Heights from Air Photographs. **10**, 221
- Cross, P. A. (with Chen, W.).* Integration of GPS and an Inertial System for Precise Surveying Applications. **238**, 375
- Cross, P. A. and Corbett, S. I.* GPS Single Epoch Ambiguity Resolution. **257**, 149
- Cross, P. A. and Norris, J. C.* The adjustment of length-ratios. **181**, 336
- Cross, P. A. and Thapa, K.* Fourth Hotine symposium on mathematical geodesy. **191**, 45
- Cross, P. A. and Thapa, K.* The optimal design of levelling networks. **192**, 68
- Cross, P. A. and Thapa, K.* The second international symposium on problems related to the redefinition of North American vertical geodetic networks. **198**, 381
- Cross, P. A.* Report on the international symposium on computational methods in geometrical geodesy. **171**, 237
- Cross, P. A.* The effect of errors in weights. **165**, 319
- Cross, P. A., Edwards, S. J. Barnes, J. B and Bétaille, D.* A Methodology for Benchmarking Real Time Kinematic GPS. **273**, 163
- Crown Lands in Ceylon, Mapping Out of. G. B. King. **83**, 194; **84**, 242
- Crucial Ground Points. Non-linear Contouring using. F. A. Ahmed. **231**, 15
- Crustal Deformation in the Shanxi Area, China, from the 1996 and 1997 GPS Observations. The Estimation of. Q.W.Liu, Y.Q. Chen and Y. X. Li. **275**, 349

- Crustal Equilibrium. G. T. M. **23**, 20
- Crustal Movements in the United Kingdom and their Measurement. W. Bullerwell, D. L. Gordon and A. :H. Cook. **138**, 153
- Crustal Movements. An Analysis of a Ten-year Survey of the Geodetic Networks at the Seismic Area of Lake Volvi in Northern Greece for detecting Real. G. Asteriadis and H. Schwan. **245**, 390
- Cube. Duplication of the. A. F. Porter. **251**, 303
- Cunnington, R. H.* Stonehenge and Woodhenge. **25**, 151
- Curl, S. J.* Report on the International Symposium on Terrestrial Electromagnetic Distance Measurements and Atmospheric Effects on Angular Measurements. **177**, 144
- Current Adjustment and Potential Adjustment Methods Applied to the Adjustment of Level Nets. Hsuan-Loh Su. **108**, 271
- Current thinking on the solutions of large sets of simultaneous linear equations. L. M. Windsor and V. Ashkenazi. **159**, 41
- Current Trends in Close-range Optical 3D Measurement for Industrial and Engineering Applications. M. R. Shortis and C. S. Fraser. **242**, 188
- Curriculum at University of Nigeria, Nsukka (UNN). An Overview of the Surveying. U. A. O. Okafor. **244**, 333
- Curvature and Refraction Corrections to Vertical Angles. Examples of. S. E. Evans. **91**, 231
- Curvature and Refraction Tables for Topographical Surveys. N. B. Favell. **52**, 240
- Curvature and Refraction. Earth. J. De Graaff-Hunter. **81**, 132
- Curvature correction in electromagnetic distance measurement. A theory of the. D. C. Williams. **178**, 166
- Curvature Correction in Precise Azimuth Observations upon a Close Circumpolar Star at any Hour Angle. The. G. J. Thornton-Smith. **80**, 65
- Curvature in the prime vertical section. Notes on the. B. R. Bowring. **226**, 195
- Curvature of Electromagnetic Waves and its Effect on Measurement of Distance. W. Hopcke. **141**, 298
- Curve Design, Highway Transition. A. G. Tyson. **75**, 206; **76**, 261; **77**, 315
- Curve of Transition. G. T. M. **37**, 439
- Curve Ranging as Applied to Spirals. Optimum Point Method of. N. K. Ndukwe and O. C. Ojinnaka. **240**, 86
- Curve Ranging by Optimum Point Method. G. C. Ojinnaka and N. K. Ndukwe. **231**, 15
- Curve, A New Transition. a. J . Thornton-Smith. **117**, 303
- Curved area calculation. Optimization techniques in. F. A. Ahmed. **210**, 163
- Curves, Transition, A Family of. G. J .Thornton-Smith. **120**, 79
- Curves. A Note on Calculating the Parameters of Circular. K. S. Li. **249**, 175
- Cut Slope Deformation Determination with GPS. N. Ananga, S, Sakurai and I Kawashima. **265**, 144
- Cutoff by co-ordinates. Area. N. F. Danial. **212**, 269
- Cvetkov, B.* A General Check for a Triangulation Computation. **108**, 278
- Cvetkov, B.* Generalized Determinantal Algebra of the Geodetic Linear Adjustment. **102**, 357

- Cvetkov, B.* On the " Indefinite" Solution of a Linear System by the Principle of Least Squares. **101**, 272
- Cvetkov, B.* On the Least Squares Adjustment of Arbitrary Inconsistent Linear Equations. **128**, 89.
- Cvetkov, B.* On the Theoretical Foundation of the Principle of Least Squares. **119**, 36
- Cvetkov, B.* The Number of Conditional Equations required for the Adjustment of a Trigonometrical Net. **103**, 24
- Cybernetics and Surveying. W. R. Logan. **135**, 34
- Cyclic errors in electro-optical distance meters. Multiplicity of. P. C. Covell and J. M. Rueger. **203**, 209
- Cylindrical Map-projections J. E. E. Craster. **14**, 493
- Cyprus survey centenary. J. R. G. Harrop. **192**, 86