

CONTENTS OF VOLUME 5

Number 1

- i Editorial
- A. H. F. ROBERTSON and N. H. WOODCOCK 1 Genesis of the Batinah mélangé above the Semail ophiolite, Oman
- A. AYDIN and A. M. JOHNSON 19 Analysis of faulting in porous sandstones
- J. F. GAMOND 33 Displacement features associated with fault zones: a comparison between observed examples and experimental models
- S. O. SELKMAN 47 Stress and displacement distributions around pyrite grains
- A. E. SCHEIDEGGER 53 Interpretation of fracture and physiographic patterns in Alberta, Canada
- C. SIMPSON 61 Strain and shape-fabric variations associated with ductile shear zones
- C. M. ONASCH 73 Dynamic analysis of rough cleavage in the Martinsburg Formation, Maryland
- A. W. MENEILLY 83 Development of early composite cleavage in pelites from West Donegal

Number 2

- 99 Editorial
- D. ELLIOTT 101 The construction of balanced cross-sections
- J. R. HOSSACK 103 A cross-section through the Scandinavian Caledonides constructed with the aid of branch-line maps
- M. P. COWARD 113 Thrust tectonics, thin skinned or thick skinned, and the continuation of thrusts to deep in the crust
- R. W. H. BUTLER 125 Balanced cross-sections and their implications for the deep structure of the northwest Alps
- M. A. COOPER, M. R. GARTON and J. R. HOSSACK 139 The origin of the Basse Normandie duplex, Boulonnais, France
- A. D. GIBBS 153 Balanced cross-section construction from seismic sections in areas of extensional tectonics
- M. A. COOPER 161 The calculation of bulk strain in oblique and inclined balanced sections
- R. HALL and M. G. AUDLEY-CHARLES 167 The structure and regional significance of the Talea Ori, Crete
- D. M. DAVIDSON, JR. 181 Strain analysis of deformed granitic rocks (Helikian), Muskoka District, Ontario

Contents

S. SENGUPTA	197 Folding of boudinaged layers
<i>Brevia</i>	
A. M. CELÂL ŞENGÖR, S. BÜYÜKAŞIKOĞLU and N. CANITEZ	211 Short note: Neotectonics of the Pontides: implications for 'incompatible' structures along the North Anatolian fault
P. L. HANCOCK and A. A. BARKA	217 Short note: Tectonic interpretations of enigmatic structures in the North Anatolian fault zone
	221 Book Reviews
	224 Announcement
Number 3/4	
	i Preface
G. E. LLOYD	225 Strain analysis using the shape of expected and observed continuous frequency distributions
A. RIBEIRO, M. C. KULLBERG and A. POSSOLO	233 Finite strain estimation using 'anti-clustered' distributions of points
R. LACASSIN and J. VAN DEN DRIESSCHE	245 Finite strain determination of gneiss: application of Fry's method to porphyroid in the southern Massif Central (France)
D. G. DE PAOR	255 Orthographic analysis of geological structures—I. Deformation theory
W. D. MEANS	279 Application of the Mohr-circle construction to problems of inhomogeneous deformation
J. CUTLER and D. ELLIOTT	287 The compatibility equations and the pole to the Mohr circle
P. R. COBBOLD and M.-N. PERCEVAULT	299 Spatial integration of strains using finite elements
V. HIRSINGER and B. E. HOBBS	307 A general harmonic coordinate transformation to simulate the states of strain in inhomogeneously deformed rocks
J.-P. BRUN	321 Isotropic points and lines in strain fields
J. P. GRATIER	329 Estimation of volume changes by comparative chemical analyses in heterogeneously deformed rocks (folds with mass transfer)
P. R. COBBOLD	341 Kinematic and mechanical discontinuity at a coherent interface
S. H. TREAGUS	351 A theory of finite strain variation through contrasting layers, and its bearing on cleavage refraction
J. INGLES	369 Theoretical strain patterns in ductile zones simultaneously undergoing heterogeneous simple shear and bulk shortening
M. P. COWARD and G. J. POTTS	383 Complex strain patterns developed at the frontal and lateral tips to shear zones and thrust zones

Contents

C. K. MAWER	401	State of strain in a quartzite mylonite, Central Australia
P. CHOUKROUNE and D. GAPAIS	411	Strain pattern in the Aar Granite (Central Alps): orthogneiss developed by bulk inhomogeneous flattening
W. M. SCHWERDTNER, G. M. STOTT and R. H. SUTCLIFFE	419	Strain patterns of crescentic granitoid plutons in the Archean greenstone terrain of Ontario
L. B. HARRIS, J.-P. BURG and S. SAUNIAC	431	Strain distribution within the Pardailhan Nappe (Montagne Noire, France) and structure of its basal thrust zone: implications for events associated with nappe emplacement
A. W. B. SIDDANS	441	Finite strain patterns in some Alpine nappes
A. W. WATKINSON	449	Patterns of folding and strain influenced by linearly anisotropic bands
P. J. HUDLESTON	455	Strain patterns in an ice cap and implications for strain variations in shear zones
N. HILDEBRAND-MITTFELDT	465	Strain fields in and around boudins in a clay experiment

Number 5

J. JACKSON and D. MCKENZIE	471	The geometrical evolution of normal fault systems
H. MURAOKA and H. KAMATA	483	Displacement distribution along minor fault traces
C. SIMPSON	497	Displacement and strain patterns from naturally occurring shear zone terminations
M. J. WATTS and G. D. WILLIAMS	507	Strain geometry, microstructure and mineral chemistry in metagabbro shear zones: a study of softening mechanisms during progressive mylonitization
J. P. PLATT, B. VAN DEN EECKHOUT, E. JANZEN, G. KONERT, O. J. SIMON and R. WEIJERMARS	519	The structure and tectonic evolution of the Aguilón fold-nappe, Sierra Alhamilla, Betic Cordilleras, SE Spain
N. H. WOODCOCK and M. A. NAYLOR	539	Randomness testing in three-dimensional orientation data
W. M. SCHWERDTNER	549	Report on the second meeting of the Canadian Tectonics Group held on 23–24 October 1982 at Gravenhurst, near Toronto
	555	Book Reviews
	561	Erratum

Number 6

G. WILLIAMS and T. CHAPMAN	563	Strains developed in the hangingwalls of thrusts due to their slip/propagation rate: a dislocation model
M. J. RICKARD and L. K. RIXON	573	Stress configurations in conjugate quartz-vein arrays
J. C. WHITE and S. H. WHITE	579	Semi-brittle deformation within the Alpine fault zone, New Zealand
D. BAHAT	591	New aspects of rhomb structures
R. J. LISLE, H. E. RONDEEL, D. DOORN, J. BRUGGE and P. VAN DE GAAG	603	Estimation of viscosity contrast and finite strain from deformed elliptical inclusions
S. R. PATERSON	611	A comparison of methods used in measuring finite strains from ellipsoidal objects
<i>Brevia</i> J. P. PLATT	619	Short note: Progressive refolding in ductile shear zones
A. GUDMUNDSSON	623	Short note: Stress estimates from the length/width ratios of fractures
J. F. SAVAGE and M. A. NAYLOR	627	Letter to the Editors: Statistics of slide blocks
	629	Book Reviews
	633	Referees for Volume 5
	i	Contents and Author Index, Volume 5

AUTHOR INDEX

AUDLEY-CHARLES, M. G.	167	KAMATA, H.	483
AYDIN, A.	19	KONERT, G.	519
BAHAT, D.	591	KULLBERG, M. C.	233
BARKA, A. A.	217(B)	LACASSIN, R.	245
BRUGGE, J.	603	LISLE, R. J.	603
BRUN, J.-P.	321	LLOYD, G. E.	225
BURG, J.-P.	431	McKENZIE, D.	471
BUTLER, R. W. H.	125	MAWER, C. K.	401
BÜYÜKASIKOĞLU, S.	211(B)	MEANS, W. D.	279
CANITEZ, N.	211(B)	MENEILLY, A. W.	83
CELÄL SENGÖR, A. M.	211(B)	MURAOKA, H.	483
CHAPMAN, T.	563	NAYLOR, M. A.	539, 627
CHOUKROUNE, P.	411	ONASCH, C. M.	73
COBBOLD, P. R.	299, 341	PATERSON, S. R.	611
COOPER, M. A.	139, 161	PERCEVAULT, M.-N.	299
COWARD, M. P.	113, 383	PLATT, J. P.	519, 619(B)
CUTLER, J.	287	POTTS, G. J.	383
DAVIDSON, D. M., JR.	181	RIBEIRO, A.	233
DE PAOR, D. G.	255	RICKARD, M. J.	573
DOORN, D.	603	RIXON, L. K.	573
VAN DEN DRIESSCHE, J.	245	ROBERTSON, A. H. F.	1
VAN DEN EECKHOUT, E.	519	RONDEEL, H. E.	603
ELLIOTT, D.	101, 287	SAUNIAK, S.	431
VAN DE GAAG, P.	603	SAVAGE, J. F.	627
GAMOND, J. F.	33	SCHEIDEGGER, A. E.	53
GAPAIS, D.	411	SCHWERDTNER, W. M.	419, 549
GARTON, M. R.	139	SELKMAN, S. O.	47
GIBBS, A. D.	153	SENGUPTA, S.	197
GRATIER, J. P.	329	SIDDANS, A. W. B.	441
GUDMUNDSSON, A.	623(B)	SIMON, O. J.	519
HALL, R.	167	SIMPSON, C.	61, 497
HANCOCK, P. L.	217(B)	STOTT, G. M.	419
HARRIS, L. B.	431	SUTCLIFFE, R. H.	419
HILDEBRAND, N.	465	TREAGUS, S. H.	351
HIRSINGER, V.	307	WATKINSON, A. W.	449
HOBBS, B. E.	307	WATTS, M. J.	507
HOSSACK, J. R.	103, 139	WEJERMARS, R.	519
HUDLESTON, P. J.	455	WHITE, J. C.	579
INGLES, J.	369	WHITE, S. H.	579
JACKSON, J.	471	WILLIAMS, G. D.	507, 563
JANZEN, E.	519	WOODCOCK, N. H.	1, 539
JOHNSON, A. M.	19		