

CONTENTS

	PAGE
T. R. HARPER AND J. S. SZYMANSKI	
The nature and determination of stress in the accessible lithosphere	5
<i>Discussion</i> : P. HANCOCK, A. BATCHELOR, S. MURRELL, N. KUSZNIR	21
K. FUCHS, M. D. ZOBACK AND F. RUMMEL	
A stress measurement profile to mid-crustal depth in KTB scientific drilling project, southeastern Germany: scientific questions and technological challenges	25
<i>Discussion</i> : P. ENGLAND, N. KUSZNIR, M. H. P. BOTT, T. HARPER	26
P. L. HANCOCK	
Determining contemporary stress directions from neotectonic joint systems	29
<i>Discussion</i> : R. MADDOCK, M. L. ZOBACK, B. SKIPP, C. VITA-FINZI	39
J. L. MERCIER, E. CAREY-GAILHARDIS AND M. SÉBRIER	
Palaeostress determinations from fault kinematics: application to the neotectonics of the Himalayas-Tibet and the Central Andes	41
<i>Discussion</i> : S. STEIN, P. HANCOCK, P. ENGLAND	50
S. STEIN AND A. PELAYO	
Seismological constraints on stress in the oceanic lithosphere	53
<i>Discussion</i> : R. WORTEL, L. FLEITOUT, S. MURRELL, J. BULL, E. J. W. JONES, M. ZOBACK	71
L. FLEITOUT	
The sources of lithospheric tectonic stresses	73
<i>Discussion</i> : P. ENGLAND, N. KUSZNIR	81
M. H. P. BOTT	
Sublithospheric loading and plate-boundary forces	83
<i>Discussion</i> : S. STEIN, R. WORTEL, N. KUSZNIR, L. FLEITOUT, M. L. ZOBACK, J. CARTWRIGHT	92
N. J. KUSZNIR	
The distribution of stress with depth in the lithosphere: thermo-rheological and geodynamic constraints	95
<i>Discussion</i> : C. VITA-FINZI, R. B. WHITMARSH, P. ENGLAND, M. H. P. BOTT, R. GOVERS, J. CARTWRIGHT, S. MURRELL	108
M. J. R. WORTEL, M. J. N. REMKES, R. GOVERS, S. A. P. L. CLOETINGH AND P. TH. MEIJER	
Dynamics of the lithosphere and the intraplate stress field	111
<i>Discussion</i> : J. CARTWRIGHT, M. H. P. BOTT	126

	PAGE
D. M. JURDY AND M. STEFANICK	
The forces driving the plates: constraints from kinematics and stress observations	127
<i>Discussion</i> : M. H. P. BOTT, M. J. R. WORTEL, L. FLEITOUT, J. CARTWRIGHT	139
M. D. ZOBACK	
State of stress and crustal deformation along weak transform faults	141
P. ENGLAND AND P. MOLNAR	
Inferences of deviatoric stress in actively deforming belts from simple physical models	151
R. BRERETON AND B. MÜLLER	
European stress: contributions from borehole breakouts	165
<i>Discussion</i> : P. HANCOCK, T. HARPER, M. H. P. BOTT, D. SANDERSON, N. KUSZNIR	178
M. L. ZOBACK AND M. MAGEE	
Stress magnitudes in the crust: constraints from stress orientation and relative magnitude data	181