

## Contents

	Page
Introduction: PRICE, N. J. & McCLAY, K. R. . . . .	1
Discussion: What is a Thrust? What is a Nappe? . . . . .	7
<b>I. MECHANICS OF THRUSTS &amp; NAPPES</b>	
BALLY, A. W. Thoughts on the tectonics of folded belts . . . . .	13
GRETENER, P. E. Pore pressure, discontinuities, isostasy and overthrusts . . . . .	33
MANDL, C. & CRANS, W. Gravitational gliding in deltas . . . . .	41
WILTSCHKO, D. V. Thrust sheet deformation at a ramp: summary and extensions of an earlier model . . . . .	55
ROGERS, D. A. & RIZER, W. D. Deformation and secondary faulting near the leading edge of a thrust fault . . . . .	65
MANDL, G. & SHIPAM, G. K. Mechanical model of thrust sheet gliding and imbrication . . . . .	79
MURRELL, S. A. F. The rock mechanics of thrust and nappe formation . . . . .	99
SMITH, A. G. Subduction and coeval thrust belts, with particular reference to North America . . . . .	111
RAMBERG, H. The role of gravity in orogenic belts . . . . .	125
<b>II. ROCK PRODUCTS OF THRUSTING</b>	
SPANG, J. H. & BROWN, S. P. Dynamic analysis of a small imbricate thrust and related structures, Front Ranges, Southern Canadian Rocky Mountains . . . . .	143
SCHMID, S. M., CASEY, M. & STARKEY, J. The microfabric of calcite tectonites from the Helvetic Nappes (Swiss Alps) . . . . .	151
APRAHAMIAN, J. & PAIRIS, J.-L. Very low grade metamorphism with a reverse gradient induced by an overthrust in Haute-Savoie (France) . . . . .	159
BEHR, H. J., AHRENDT, H., SCHMIDT, A. & WEBER, K. Saline horizons acting as thrust planes along the southern margin of the Damara Orogen (Namibia/SW-Africa) . . . . .	167
TALBOT, C. J. Sliding and other deformation mechanisms in a glacier of salt, S Iran . . . . .	173
BOULLIER, A. M. & QUERNARDEL, J.-M. The Caledonides of northern Norway: relation between preferred orientation of quartz lattice, strain and translation of the nappes . . . . .	185
SIBSON, R. H., WHITE, S. H. & ATKINSON, B. K. Structure and distribution of fault rocks in the Alpine Fault Zone, New Zealand . . . . .	197
ADAMS, C. J. Uplift rates and thermal structure in the Alpine Fault Zone and Alpine Schists, Southern Alps, New Zealand . . . . .	211
<b>III. THRUST &amp; NAPPE REGIMES. A. 'THE OLD WORLD'</b>	
<i>Caledonides</i>	
COOPER, M. A. The internal geometry of nappes: criteria for models of emplacement . . . . .	225
MILTON, N. J. & WILLIAMS, G. D. The strain profile above a major thrust fault, Finnmark, N Norway . . . . .	235
McCLAY, K. R. & COWARD, M. P. The Moine Thrust Zone. An overview . . . . .	241

HUTTON, D. H. W. Tectonic slides in the Caledonides . . . . .	261
PHILLIPS, W. E. A. Estimation of the rate and amount of absolute lateral shortening in an orogen using diachronism and strike slipped segments . . . . .	267
COWARD, M. P. & KIM, J. H. Strain within thrust sheets . . . . .	275
<i>Alpine</i>	
RAMSAY, J. G. Tectonics of the Helvetic Nappes . . . . .	293
LAUBSCHER, H. P. The 3D propagation of décollement in the Jura . . . . .	311
PFIFFNER, O. A. Fold-and-thrust tectonics in the Helvetic Nappes (E Switzerland) . . . . .	319
BEACH, A. Some observations on the development of thrust faults in the Ultra-dauphinois Zone, French Alps. . . . .	329
GRAHAM, R. H. Gravity sliding in the Maritime Alps . . . . .	335
<i>Eurasia</i>	
MATTE, PH. & BURG, J. P. Sutures, thrusts and nappes in the Variscan Arc of western Europe: plate tectonic implications . . . . .	356
WOODCOCK, N. H. & ROBERTSON, A. H. F. Wrench related thrusting along a Mesozoic-Cenozoic continental margin: Antalya Complex, SW Turkey . . . . .	359
LAWRENCE, R. D., KHAN, S. H., DEJONG, K. A., FARAH, A. & YEATS, R. S. Thrust and strike slip fault interaction along the Chaman transform zone, Pakistan . . . . .	363
JACKSON, J. A., FITCH, T. J., MCKENZIE, D. P. Active thrusting and the evolution of the Zagros fold belt. . . . .	371
THAKUR, V. C. An overview of thrusts and nappes of western Himalaya . . . . .	381
VON HUENE, R., ARTHUR, M. & CARSON, B. Ambiguity in interpretation of seismic data from modern convergent margins: an example from the IPOD Japan Trench transect . . . . .	393
AUDLEY-CHARLES, M. G. Geometrical problems and implications of large-scale overthrusting in the Banda Arc-Australian margin collision zone . . . . .	407
MILSOM, J. Neogene thrust emplacement from a frontal arc in New Guinea . . . . .	417
IV. THRUST AND NAPPE REGIMES. B. 'THE NEW WORLD'	
<i>The Americas</i>	
PRICE, R. A. The Cordilleran foreland thrust and fold belt in the southern Canadian Rocky Mountains . . . . .	427
THOMPSON, R. I. The nature and significance of large 'blind' thrusts within the northern Rocky Mountains of Canada . . . . .	449
BROWN, R. L. Metamorphic complex of SE Canadian Cordillera and relationship to foreland thrusting . . . . .	463
CHARLSWORTH, H. A. K. & KILBY, W. E. Thrust nappes in the Rocky Mountain Foothills near Mountain Park, Alberta . . . . .	475
COWAN, D. S. & MILLER, R. B. Deformational styles in two Mesozoic fault zones, western Washington, U.S.A. . . . .	483
HATCHER JR, R. D. Thrusts and nappes in the North American Appalachian Orogen . . . . .	491
BREWER, J. A., COOK, F. A., BROWN, L. D., OLIVER, J. E., KAUFMAN, S. & ALBAUGH, D. S. COCORP seismic reflection profiling across thrust faults . . . . .	501
WINSLOW, MARGARET A. Mechanisms for basement shortening in the Andean foreland fold belt of southern South America . . . . .	513
Subject Index . . . . .	529