## TABLE OF CONTENTS

Preface	ix		
Phanerozoic Sections:			
The Ivrea crustal cross-section (northern Italy and southern Switzerland) (Andre Zingg)	1		
The exposed crustal cross section of southern Calabria, Italy: structure and evolution of a segment of Hercynian crust (Volker Schenk)	21		
An exposed cross-section of continental crust, Doubtful Sound Fiordland, New Zealand; geophysical & geological setting (G.J.H. Oliver)	43		
Uplift and exhumation of middle and lower crustal rocks in an extensional tectonic setting, Fiordland, New Zealand (G.M. Gibson)	71		
A crustal cross-section for a terrain of superimposed shortening and extension: Ruby Mountains-East Humboldt Range metamorphic core complex, Nevada (A.W. Snoke, A.J. McGrew, P.A. Valasek, and S.B. Smithson)	103		
Progress in tectonic and petrogenetic studies in an exposed cross- section of young (~100 Ma) continental crust, southern Sierra Nevada, California (Jason B. Saleeby)	137		
Characteristics of a continental margin magmatic arc as a function of depth: the Skagit-Methow crustal section (Bryan Kriens and Brian Wernicke)	159		
The evolution of the Kamila Shear Zone, Kohistan, Pakistan (P.J. Treloar, K.H. Brodie, M.P. Coward, M.Q. Jan, M.A. Khan, R.J. Knipe, D.C. Rex and M.P. Williams)	175		
Crustal formation at depth during continental collision (L.S. Hollister and M.L. Crawford)	215		

## **Precambrian Sections:**

	rchean Superior province (John A. Percival)	227
Pr	lajor thrust faults and the vertical zonation of the middle to upper roterozoic crust in central Australia (A.Y. Glikson, C.G. Ballhaus, R. Goleby and R.D. Shaw)	285
	he late Archean high-grade terrain of south India and the deep ructure of the Dharwar Craton (R.C. Newton)	305
nc	n oblique cross section of Archean continental crust at the orthwestern margin of Superior Province, Manitoba, Canada (Werner Jeber and Klaus Mezger)	327
	wo transects across the Grenville Front, Killarney and Tyson Lake reas, Ontario (A. Davidson)	343
Crustal Composition and the Role of Fluids:		
	asaltic composition xenoliths and the formation, modification and reservation of lower crust (R.W. Kay and S. Mahlburg Kay)	401
	verage composition of lower and intermediate continental crust, apuskasing structural zone, Ontario (M.G. Truscott and D.M. Shaw)	421
	luid-rock interactions in the Ivrea Zone and the origin of high lower rustal conductivities (A.J. Baker)	437
it	lectrical conductivity: the story of an elusive parameter, and of how possibly relates to the Kapuskasing Uplift (Lithoprobe, Canada)  Marianne Mareschal)	453
Faults, Crustal Deformation and Emplacement Mechanisms:		
	Deformation sequence in the southeastern Kapuskasing structural zone, vanhoe Lake, Ontario, Canada (J.T. Bursnall)	469
	the exhumation of cross sections of the continental crust: structure, inematics and rheology (M.R. Handy)	485
	the fluid crustal layer and its implications for continental dynamics  Brian Wernicke)	509

## Geophysical Structure and Properties of the Crust:

(B. Bürki)	545
The nature of the Kapuskasing Structural Zone: results from the 1984 seismic refraction experiment (Jianjun Wu and Robert F. Mereu)	563
Exposed continental crust: seismic results to be tested (Th. Wever)	587
The structure of the crust and uppermost mantle offshore Britain: deep seismic reflection profiling and crustal cross-sections (T.J. Reston)	603
Intracrustal detachment and wedging along a detailed cross section in Central Europe (St. Mueller)	623
Overview:	
Strategy for exploration of the buried continental crust (Jack Oliver)	645
Exposed cross sections of the continental crust - synopsis (David M. Fountain, John Percival and Matthew H. Salisbury)	653