

Contents

	Preface V. Bucha	v
1	Review of the Deep Structure Research in the Bohemian Massif and West Carpathians M. Blůžkovský, M. Suk, M. Burda	1
2	Seismic Research into the Lithosphere of Central Europe	5
2.1	Elastic Properties of Rocks and Their Anisotropy V. Babuška, Z. Pros	5
	Laboratory Methods	5
	In Situ Methods	6
	The Effect of the Preferred Orientation of Crystals	6
	Effects of Microfractures and Grain Boundaries	8
	Review of Elastic Anisotropy of Crystalline Rocks	10
2.2	Deep Seismic Sounding in Czechoslovakia M. Mayerová, M. Novotný, M. Fejfar	13
	Main Results of the Seismic Data Interpretation Along Regional Profiles	16
2.3	Construction of the Moho Discontinuity Map M. Mayerová, Z. Nakládalová, I. Ibrmajer, M. Fejfar	20
2.4	Deep Reflection Seismic Profiling in Czechoslovakia - the ČESLOKORP (Czechoslovak Crustal Reflection Profiling Project) I. Ibrmajer, Č. Tomek, T. Koráb, L. Dvořáková	21
	Profile 1T	24
	Profile 2T	27
	Profile 3T	36
	Profile 3	42
2.5	Model of the Deep Lithosphere Structure V. Babuška, J. Plomerová, J. Šílený	45
2.6	Deep Structure of the Bohemian Massif from Phase Velocities of Seismic Surface Waves A. Plešinger, H. Neunhöfer, E. Wielandt	53
	Introduction	53
	Geologic and Geophysical Characteristics	53
	Data Analysis and Inversion	55
	Profile MOX-VIE	55
	Profile MOX-KHC	56