

# Contents

<i>Preface</i> .....	vii
<i>Foreword</i> .....	ix
<b>1. Introduction</b> .....	1
D. B. Slemmons	

## SEISMICITY

<b>2. Seismicity Map of North America Project</b> .....	21
E. R. Engdahl and W. A. Rinehart	
<b>3. Seismicity of the Aleutian Arc</b> .....	29
J. J. Taber, S. Billington, and E. R. Engdahl	
<b>4. Seismicity of continental Alaska</b> .....	47
R. A. Page, N. N. Biswas, J. C. Lahr, and H. Pulpan	
<b>5. An overview of western Canadian seismicity</b> .....	69
G. C. Rogers and R. B. Horner	
<b>6. Seismicity of Washington and Oregon</b> .....	77
R. S. Ludwin, C. S. Weaver, and R. S. Crosson	
<b>7. Northern California seismicity</b> .....	99
R. A. Uhrhammer	
<b>8. The seismotectonic fabric of central California</b> .....	107
D. P. Hill, J. P. Eaton, W. L. Ellsworth, R. S. Cockerham, F. W. Lester, and E. J. Corbett	
<b>9. Seismotectonics of southern California</b> .....	133
L. K. Hutton, L. M. Jones, E. Hauksson, and D. D. Given	

<b>10. <i>The seismicity of Nevada and some adjacent parts of the Great Basin</i></b> .....	153
A. M. Rogers, S. C. Harmsen, E. J. Corbett, K. Priestley, and D. dePolo	
<b>11. <i>Seismicity of the Intermountain Seismic Belt</i></b> .....	185
R. B. Smith and W. J. Arabasz	
<b>12. <i>Seismicity of the Rio Grande rift in New Mexico</i></b> .....	229
A. R. Sanford, L. H. Jaksha, D. J. Cash	
<b>13. <i>Seismotectonics of the central United States</i></b> .....	245
B. J. Mitchell, O. W. Nuttli, R. B. Herrmann, and W. Stauder	
<b>14. <i>The seismicity and seismotectonics of eastern Canada</i></b> .....	261
J. Adams and P. Basham	
<b>15. <i>Earthquake activity in the northeastern United States</i></b> .....	277
J. E. Ebel and A. L. Kafka	
<b>16. <i>Seismicity of the southeastern United States; 1698 to 1986</i></b> .....	291
G. A. Bollinger, A. C. Johnston, P. Talwani, L. T. Long, K. M. Shedlock, M. S. Sibol, M. C. Chapman	
<b>17. <i>Seismotectonics of Middle America</i></b> .....	309
J. W. Dewey and G. Suárez	
<b>18. <i>Tectonic implications of upper-crustal seismicity in Central America</i></b> .....	323
R. A. White	

#### STRESS

<b>19. <i>Tectonic stress field of North America and relative plate motions</i></b> .....	339
M. D. Zoback and M. L. Zoback	
<b>20. <i>Crustal stresses in Canada</i></b> .....	367
J. Adams and S. Bell	
<b>21. <i>Stress indicators in Alaska</i></b> .....	387
C. H. Estabrook and K. H. Jacob	
<b>22. <i>State of stress and active deformation in Mexico and western Central America</i></b> .....	401
M. Suter	

#### THERMAL ASPECTS

<b>23. <i>Heat-flow patterns of the North American continent; A discussion of the Geothermal Map of North America</i></b> .....	423
D. D. Blackwell, J. L. Steele, and L. S. Carter	
<b>24. <i>Terrestrial heat flow in Canada</i></b> .....	437
A. M. Jessop	
<b>25. <i>Heat flux in the Canadian Cordillera</i></b> .....	445
T. Lewis	

**26. An overview of heat flow in southwestern United States and northern Chihuahua, Mexico** ..... 457  
M. Reiter, M. W. Barroll, and J. Minier

**27. Subsurface temperatures in the northern Great Plains** ..... 467  
W. D. Gosnold, Jr.

**NEOTECTONICS**

**28. Late Quaternary glacial isostatic recovery of North America, Greenland, and Iceland; A neotectonics perspective** ..... 473  
J. T. Andrews

**Index** ..... 487