

Contents

<i>List of contributors</i>	v
<i>Preface</i>	vii
Part 1 Introduction	
Chapter 1 An introduction to mountain geomorphology <i>Philip N. Owens and Olav Slaymaker</i>	3
Part 2 Historical Mountain Geomorphology	
Chapter 2 Cenozoic evolution of global mountain systems <i>Lewis A. Owen</i>	33
Chapter 3 The evolution of mountains on passive continental margins <i>Cliff Ollier</i>	59
Chapter 4 The evolution of the mountains of New Zealand <i>Paul W. Williams</i>	89
Part 3 Functional Mountain Geomorphology	
Chapter 5 Processes, rates and patterns of mountain-belt erosion <i>Niels Hovius, Dimitri Lagoe and Simon Dadson</i>	109
Chapter 6 Mechanical and chemical denudation in mountain systems <i>Nel Caine</i>	132
Chapter 7 Hillslope hydrology and mass movements in the Japanese Alps <i>Yuichi Onda</i>	153
Chapter 8 Glacial lake outburst floods in mountain environments <i>Helgi Björnsson</i>	165
Part 4 Applied Mountain Geomorphology	
Chapter 9 Geomorphic hazards in mountain environments <i>Kenneth Hewitt</i>	187
Chapter 10 Mountain hazards in China <i>Tianchi Li</i>	219
Chapter 11 Geomorphic processes and hazards on volcanic mountains <i>Jean-Claude Thouret</i>	242
Part 5 Mountain Geomorphology and Global Environmental Change	
Chapter 12 Mountain geomorphology and global environmental change <i>Olav Slaymaker and Philip N. Owens</i>	277
Index	301