

Contents

Foreword	ix
Preface	xi
Acknowledgements	xiii
Editors	xv
Contributors	xvii
Chapter 1 Gujarat Earthquake: Ground Deformation.....	1
<i>M.G. Thakkar</i>	
Chapter 2 Gujarat Earthquake: Liquefaction	29
<i>M.G. Thakkar</i>	
Chapter 3 Earthquakes and Medical Complications	49
<i>Scarlet Benson, Laura Ebbeling, Michael J. VanRooyen and Susan A. Bartels</i>	
Chapter 4 Utilization of Satellite Geophysical Data as Precursors for Earthquake Monitoring.....	71
<i>T.J. Majumdar</i>	
Chapter 5 Satellite Radar Imaging and Its Application to Natural Hazards	95
<i>Matt E. Pritchard and Sang-Ho Yun</i>	
Chapter 6 DEMETER Satellite and Detection of Earthquake Signals.....	115
<i>Michel Parrot</i>	
Chapter 7 TIR Anomaly as Earthquake Precursor.....	139
<i>Luca Piroddi</i>	
Chapter 8 Stress Change and Earthquake Triggering by Reservoirs: Role of Fluids.....	151
<i>Kalpna Gahalaut</i>	
Chapter 9 Earthquake Precursory Studies in India: An Integrated Approach.....	175
<i>Brijesh K. Bansal and Mithila Verma</i>	
Chapter 10 Geomorphic Features Associated with Erosion.....	205
<i>Niki Evelpidou, Isidoros Kampolis and Anna Karkani</i>	
Chapter 11 Thar Desert: Source for Dust Storm	233
<i>Priyabrata Santra, Suresh Kumar and M.M. Roy</i>	

Chapter 12	Coastal Subsidence: Causes, Mapping and Monitoring	253
	<i>Andrea Taramelli, Ciro Manzo, Emiliana Valentini and Loreta Cornacchia</i>	
Chapter 13	Subsidence Mapping Using InSAR	291
	<i>Mukesh Gupta</i>	
Chapter 14	Earthquakes and Associated Landslides in Pakistan	305
	<i>Shah F. Khan, Muhammad Asif Khan, Ulrich Kamp and Lewis A. Owen</i>	
Chapter 15	Landslides in Jamaica: Distribution, Cause, Impact and Management	333
	<i>Servel Miller, Anestoria Shalkowski, Norman Harris, Dionne Richards and Lyndon Brown</i>	
Chapter 16	Landslides: Causes, Mapping and Monitoring – Examples from Malaysia	363
	<i>Omar F. Althuwaynee and Biswajeet Pradhan</i>	
Chapter 17	Mapping and Monitoring of Landslides Using LIDAR	397
	<i>Michel Jaboyedoff, Antonio Abellán, Dario Carrea, Marc-Henri Derron, Battista Matasci and Clément Michoud</i>	
Chapter 18	Radar Monitoring of Volcanic Activities	421
	<i>Zhong Lu and Daniel Dzurisin</i>	
Chapter 19	Active Volcanoes: Satellite Remote Sensing	447
	<i>Nicola Pergola, Eugenio Sansosti and Francesco Marchese</i>	
Chapter 20	Application of Thermal Remote Sensing to the Observation of Natural Hazards ...	483
	<i>Matthew Blackett</i>	
Index	499