Record Nr.	UNINA9910742484403321
Autore	Sandeep
Titolo	Geohazards [[electronic resource]] : Analysis, Modelling and Forecasting / / edited by Sandeep, Parveen Kumar, Himanshu Mittal, Roshan Kumar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9939-55-0
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (201 pages)
Collana	Advances in Natural and Technological Hazards Research, , 2213-6959 ; ; 53
Altri autori (Persone)	KumarParveen MittalHimanshu KumarRoshan
Disciplina	551 363.34
Soggetti	Natural disasters Geophysics Geology Artificial intelligence Natural Hazards Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Role of active tectonics in the estimation of seismic hazard of an area: A case study of western India Stress Scenario In The North-West Himalaya: What We Learnt From Post-Seismic Stress Changes The crust and upper mantle structure beneath the Bangladesh and its effects on seismic hazard Seismological data quality controls – a synthesis Use of Geophysical techniques in Seismic Hazard Assessment and Microzonation Earthquake response and its implications towards the structural design codes for Himalayan and adjoining regions of India Liquefaction Potential Index (LPI): A Parameter to Assess Liquefaction Hazard Earthquake Precursory Studies Using Radon Time Series Data in Taiwan: An Overview Spatial prediction of earthquake-induced landslide susceptible zones - A case study from Indian Himalaya Tsunamis in the past and recent

1.

	years over Indian coasts: A review Instrumentation of India's First Regional Earthquake Early Warning System and Site Characterization of its Stations Overview of Artificial Intelligence (AI) and Machine Learning (ML) in Seismology.
Sommario/riassunto	This book presents a comprehensive analysis of diverse aspects of geohazards. The growing vulnerability and exposure to failures in risk reduction and policy-making increases the severity of geohazard impacts by many folds. Therefore, detailed geohazard analysis, modelling and forecasting are needed to reduce the impacts of extreme events. An interdisciplinary approach to hazard mitigation provides an advanced tool for risk reduction. The book thus summarizes recent modelling and analysis techniques for hazard assessment and risk mitigation. Topics discussed in the book are hazard and risk associated with earthquakes, vulnerability assessment for landslides and avalanches, the assessment of tsunami risk in coastal regions, the implementation of early warning systems to prevent catastrophic consequences, climate change risk modelling and risk communication. The convergent approach with the aspects of natural, engineering, and social sciences attracts a vast audience working to advance disaster science. This book also significantly facilitates the acquisition of policy-relevant knowledge for risk reduction, which is beneficial to the general public.