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ISBN	3-031-23859-1
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (429 pages)
Disciplina	551.307
Soggetti	Landslide hazard analysis
	Inglese
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Modern Methods of Rock Mass Characterisation and Rock Fall Monitoring: A Review Rock Mass Characterization and Rockfall Monitoring: Traditional Approaches Criteria of the Prehistoric Rock Avalanches Identification and Discrimination Stability Assessment of Markundi Hills Using Q-slope, SMR and Simulation Tools Geotechnical Investigation of Landslide in Ooty, India Geomechanical and Kinematic Stability Analysis of Unstable Slopes (near 9th km stone) on Palani – Kodaikkanal Ghat Section in Tamil Nadu Geological and Geotechnical Studies of Nungkao Landslide along Imphal-Jiribam National Highway, NH-37, Manipur, India Stability Assessment of Lateritic Soil Slope along NH-66, Ratnagiri Maharashtra, India Rockfall Hazard: A Comprehensive Review of Current Mitigation Practices Debris Flow Hazard in India: Current Status, Research Trends, and Emerging Challenges Early Warning System for Rainfall Induced Landslide – A Laboratory Prototype Model Study and Instrumental Monitoring of Landslides at the "Russkie Gorki" Site in the Mzymta River Valley, Sochi Region, Russia Application of Scoops3D and GIS for Assessing Landslide Hazard in Trung Chai Commune, Sapa, Vietnam Landslide Susceptibility Assessment using Frequency Ratio Model in Turung Mamring, South District of Sikkim, India Mapping of Annual Ground Displacement using Remote Sensing Methods for Critical Slopes along the Bhagirathi River in Uttarakhand, India

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	Landslides Inventory of Active Ramgarh Thrust Zone through Image Processing and GIS Techniques in Sikkim, India Landslide Susceptibility Zonation Mapping using Frequency Ratio, Information Value Model, and Logistic Regression Model: A Case Study of Kohima District in Nagaland, India Unmanned Aerial Vehicles Technology for Slope Hazard Assessment, Monitoring, and Post Failure Management Landslide Hazard Assessment Using Machine Learning and GIS Social and Economic Impacts of Kotropi Landslide on National Highways of Himalayas – A Case Study.
Sommario/riassunto	This book intends to decipher the knowledge in the advancement of understanding, detecting, predicting, and monitoring landslides. The number of massive landslides and the damages they cause has increased across the globe in recent times. It is one of the most devastating natural hazards that cause widespread damage to habitat on a local, regional, and global scale. International experts provide their experience in landslide research and practice to help stakeholders mitigate and predict potential landslides. The book comprises chapters on: Dynamics, mechanisms, and processes of landslides; Geological, geotechnical, hydrological, and geophysical modelling for landslides; Mapping and assessment of hazard, vulnerability, and risk associated with landslides; Monitoring and early warning of landslides; Application of remote sensing and GIS techniques in monitoring and assessment of landslides. The book will be of interest to researchers, practitioners, and decision-makers in adapting suitable modern techniques for landslide study.