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Nota di contenuto	A simple Hypoplastic model for sand under cyclic loading -- Failure mode and mechanism of the consequent slope in Xuan'en county -- Reliability Analysis of Slope Stability with Intelligent Surrogate Models: A Case Study in the Three Gorges Reservoir -- Experimental study on the permeability of hydrophobic powders treated loess -- Modelling and assessment of debris flow impact on infrastructure in the Carpathians -- On the performance of CAES pile in overconsolidated soils: a numerical study -- Experimental and numerical analysis of fluid-injection unloading rock failure process -- A visco-hypoplastic model with solid hardness degradation for granular soil -- Prediction of tunnelling-induced settlement trough by artificial neural networks -- Machine Learning prediction of bleeding of bored concrete piles based on centrifuge tests -- Stability Evaluation of Huangtupo Riverside slump I based on water-soil coupling -- Effect of different factors on dynamic shear modulus of compacted loess -- Unified description of viscous behaviors of clay and sand with a visco-hypoplastic model -- Experimental and numerical investigation on mechanical behaviour of gravel soils -- A basic hypoplastic model with fabric evolution -- Phase-field modelling brittle failure in rockslides -- Triggering

	mechanism and mitigation strategies of freeze-thaw landslides for engineering in cold regions: A review -- Mixture theory-based SPH model for soil-water coupling dynamic problems -- Assessing Slope Stability Based on Measured Data Coupled with PSO.
Sommario/riassunto	This book offers a glimpse of the geotechnical research activities at BOKU, Vienna, in 2023. The research topics are wide-ranged including laboratory testing, constitutive modelling, numerical simulations with DEM and SPH, landslide, tunnelling and machine learning. Many research activities are carried out by visiting scholars from China.