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Nota di contenuto	Chapter 1. Apply Probabilistic Methods for Slope Stability Analysis -- Chapter 2. Reliability Based Design: An Australian Experience -- Chapter 3. Potential use of As5104 for Reliability Based Design -- Chapter 4. Optimising Site Investigations using Monte Carlo Analysis and Genetic Algorithms -- Chapter 5. The Random Finite Element Method, its Implementation in Geotechnical Software through Python, and a Comparison with the Random Limit Equilibrium Method -- Chapter 6. Application of Machine Learning Methods in Estimating Soil Parameters from Dynamic Penetration Tests -- Chapter 7. A Case Study of an Impact Assessment of an Excavation in the Sydney Cbd, Adopting Industry Guidance for Numerical Modelling -- Chapter 8. Bayesian Analysis of Consolidation Parameters of a Tailings Storage Facility -- Chapter 9. Cognitive Biases and their Influence on Projects.
Sommario/riassunto	This book presents the select proceedings of the 26th Annual Symposium organized by the Sydney Chapter of the Australian Geomechanics Society (AGS). The symposium brought together key

stakeholders of the Australian geological and geotechnical community. This book showcases state-of-the-art practices, new research findings, and case histories that demonstrate reliability-based designs and assessments. The papers on reliability-based approaches cover various aspects of site investigations, interpretations, designs, specialized testing, and technologies. This book presents recent innovations, trends, and concerns, as well as practical challenges encountered, and solutions adopted in the field. This volume will be a useful guide to those in academia and industry working in the fields of geotechnical engineering.