

## Reliability And Statistics In Geotechnical Engineering

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### Reliability And Statistics In Geotechnical

Reliability and Statistics in Geotechnical Engineering offers a much needed state-of-the-art reference for risk analysis in geotechnical engineering and geology. Integrating theory and practical applications, this book: Discusses the nature and philosophy of uncertainty in geological and geotechnical engineering.

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Reliability Statistics in Geotechnical Engineering comprehensively covers the subject of risk and reliability in both practical and research terms \* Includes extensive use of case studies \* Presents topics not covered elsewhere--spatial variability and stochastic properties of geological materials \* No comparable texts available Practicing engineers will find this an essential resource as will graduates in geotechnical engineering programmes.

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Reliability and Statistics in Geotechnical Engineering. Preface. Part I. 1 Introduction - uncertainty and risk in geotechnical engineering. 1.1 Offshore platforms. 1.2 Pit mine slopes. 1.3 Balancing risk and reliability in a geotechnical design. 1.4 Historical development of reliability methods in civil engineering. 1.5 Some terminological and philosophical issues. 1.6 The organization of this book. 1.7 A comment on notation and nomenclature. 2 Uncertainty. 2.1 Randomness, uncertainty, and ...

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### **Reliability and Statistics in Geotechnical Engineering ...**

In this context, reliability can be defined as the probability of successful performance of the slope and corresponds to the complement of the probability of failure (PF).

### **Reliability and Statistics in Geotechnical Engineering ...**

Statistics, reliability analyses and risk estimates can be very useful decision-making tools in geotechnical problems. Yet the methods are little used in practice. The offshore and mining industry are at the forefront for the use of these approaches, having encouraged their use

### **Risk and Reliability in Geotechnical Engineering**

Risk and Reliability in Geotechnical Engineering makes these reliability and risk methodologies more accessible to practitioners and researchers by presenting soil statistics which are necessary inputs, by explaining how calculations can be carried out using simple tools, and by presenting illustrative or actual examples showcasing the benefits and limitations of these methodologies.

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Reliability index needs information of various variables like dead load statistics (COV<sub>QD</sub>) live load statistics (COV<sub>QL</sub>) and dead load to live load ratio (QD/QL). The limit state function, G is linear at average values of random variables.

### **Geotechnical Uncertainties and Reliability Theory ...**

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Risk and reliability analysis is an area of growing importance in geotechnical engineering, where many variables have to be considered. Statistics, reliability modeling and engineering judgement are employed together to develop risk and decision analyses for civil engineering systems. The resulting engineering models are used to make probabilistic predictions, which are applied to geotechnical problems.

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