

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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Several of the logic structures and formats used leave much to be desired. Part I leaves the reader with only the barest explanation of which methods apply to which problems. There are rather large leaps in mathematical symbolism that spans algebra, integral calculus, matrices, sets, and directed graphs. Questions regarding the details of computation, code, algorithms, mathematics, and ...

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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).

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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...

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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

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 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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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.

Risk and Reliability in Geotechnical Engineering - 1st ...

Reliability and Statistics in Geotechnical Engineering. Book. Jan 2003; Gregory Baecher; John T. Christian; This is a full length text available from John Wiley and Sons, London and NY or in used ...

Bayesian Supervised Learning of Site-Specific Geotechnical ...

Reliability and Statistics in Geotechnical Engineering offers a much needed state-of-the-art reference for risk analysis in geotechnical engineering and geology. Emphasizing both theoretical underpinnings and practical applications, this comprehensive text constitutes an invaluable reference for practising geotechnical engineers, geologists, university students, and civil engineers in general practice. --Jacket.

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