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Risk, reliability, uncertainty, foundations, failure, dams, offshore foundations. soil parameters, probabilistic analysis  
INTRODUCTION This invited paper presents the role of reliability- and risk-based approaches in solving geotechnical design problems. It discusses existing geotechnical applications, available reliability tools and

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illustrative or actual examples showcasing the benefits and limitations of these methodologies.

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Although these efforts significantly facilitate the understanding and application of geotechnical reliability-based approaches, practicing engineers are reluctant to adopt them in geotechnical practice, at least, due to two reasons: (1) the training of geotechnical practitioners in probability and statistics is often limited and, hence, they feel less comfortable dealing with probabilistic ...

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