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Soils can rarely be described as ideally elastic or perfectly plastic and yet simple elastic and plastic models form the basis for the most traditional geotechnical engineering calculations. With the advent of cheap powerful computers the possibility of performing analyses based on more realistic models has become widely available. One of the aims of this book is to describe the basic ...

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Soil Behaviour And Critical State

Critical states soil mechanics is a popular framework for the recent development of many soil constitutive models. This book is a step by step exploration of this framework, especially Modified Cam Clay model, both conceptually and numerically.

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as the soil contracts or strain softens until the critical state is reached. At this point, this yield surface no longer changes and is known as the yield surface at critical state.

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The stress-strain-strength behaviors of cohesive and cohesionless soils under drained or undrained condition can be quantitatively determined using this simple model. More sophisticated models in the current research front, for example, MIT S2 model, bounding surface models, are all shadowed within critical state concepts.

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The Critical State concept is an idealization of the observed behavior of saturated remoulded clays in triaxial compression

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tests, and it is assumed to apply to undisturbed soils. It states that soils and other granular materials, if continuously distorted (sheared) until they flow as a frictional fluid, will come into a well-defined critical state.

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mysterious black boxes but a proper appreciation of their worth requires an understanding of the ...

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Let me recommend this book to you, if you are interested in soil mechanics, numerical modelling, and if you try to understand soils well. Critical states soil mechanics is a popular framework for the recent development of many soil constitutive models.

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