

169th IDEC ASIA SEMINAR

Large deformation and modeling of penetration problems in geo-mechanics

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Date / Time : February 25 (Wed.), 2009 13:00~14:30

Language : English

Location : IDEC 2F Room No. 203

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Abstract:

In current geotechnical practice, it is common to assume that the deformation caused by loading is small so that the initial geometry of the problem can be used throughout the analysis. However, such a small-deformation assumption can lead to grossly inaccurate solutions for certain problems. For example, embankments and foundations built on soft clay deposits can undergo settlements in meters without failure. When analysing these problems, it is essential to consider the geometrical nonlinearity caused by large deformation.

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「地盤工学における大変形理論と解析モデル」

オーストラリア・ニューカッスル大学
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言語 : 英語

日時 : 2009 年 2 月 25 日 (水) 午後 1 時~2 時 30 分

場所 : 大学院国際協力研究科 2 階 203 教室

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