

NUMERICAL ANALYSIS OF BRACED EXCAVATIONS

Prepared by: Leow Kok Wai

ABSTRACT

The project is to analyze the soil movement using the Finite Element Method. Sheet piles and struts used to prevent soil collapse in an excavation. The sheet pile and strut is one of the most common methods for retaining during excavation. Normally, sheet piles are installed using hammers or vibrator. Time consuming using to install the sheet pile and strut is less than pre-cast concrete wall because it is easy to install. On the other hand, the program software modified by Nanyang Technology University is one of the best ways to analyze the soil movement. It is content a lot of graph and diagrams to help you to understand the excavation. Finally, this title is attractive for those who are interested in Geotechnical Research.