THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
土木及環境工程學系

Chair Professors series

Online lecture in Civil Engineering

A Simple Method for Calculating Consolidation Settlements of Clayey Soils and Introduction to MSc and PhD Programs and Geotechnical Unit

Prof. Yin Jian-hua, Chair Professor of Soil Mechanics, CEE of PolyU

Date: 14 September 2020 (Monday)
Time: 5:00 pm - 6:00 pm

SPEAKER'S BIOGRAPHY

Jian-Hua Yin received a BEng degree in 1983 in a university (later merged with Chongqing University) in Chinese Mainland, an MSc degree from Institute of Rock and Soil Mechanics of the Chinese Academy of Sciences in 1984, and a PhD from The University of Manitoba, Canada in 1990. Dr Yin has a mix of industrial and academic experiences. After worked in consulting firms and a research center, he joined Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University (PolyU) in 1995 as an Assistant Professor. He has been Chair Professor of Soil Mechanics of PolyU since 2014. Professor Yin has a good track record in research and has played a leading role in development of advanced soil testing equipment, innovative fiber optical sensors, establishing large-scale multi-purpose physical modeling facilities for studying geo-hazards and soft soils, organization of regional and international conferences. Professor Yin serves as a Vice-President of International Association for Computer Methods and Advances in Geomechanics (IACMAG), a Co-Editor of International Journal of Geomechanics (ASCE, USA), and a Co-Editor of Geomechanics and Geoengineering (UK). He has received the honours of the prestigious "John Booker Medal" in 2008, "Chandra S. Desai Excellence Award" in 2011, and "Outstanding Contributions Medal" in 2017 from all IACMAG. He received 2000 "Mao Yi-Sheng Soil Mechanics and Foundation Engineering Youth Award" (茅以升土力學及基礎工程青年獎) and delivered the high-status 2011 "Huang Wenxi Lecture" (黃文熙講座) in Chinese Mainland. He obtained 2016 Natural Science Award (first-class) (ranked 2nd) and 2019 Natural Science Award by the Ministry of Education of China (second-class) (ranked 1st).

ABSTRACT

This talk includes Part I and Part II. In Part I, the speaker will introduce a new simplified Hypothesis B method for calculating consolidation settlements of clayey soils exhibiting creep. He will first explain meanings of consolidation, definition of creep and its mechanisms, and real settlement problems. He will then describe what are Hypothesis A and Hypothesis B methods for calculating consolidation settlements of clayey soils considering creep compression. After this, he presents a new simplified Hypothesis B method for calculating consolidation settlements of one layer and multi-layers of clayey soils and verification of the new simplified Hypothesis B method. At the end, conclusions and remarks on this new method are presented.

In Part II, he will give a brief introduction to MSc and PhD Programs in CEE department. After this, he will introduce academic colleagues in Geotechnical Unit and four focused research areas in Geotechnical Engineering.

All interested are welcome. Free admission.
For registration, please fill in the e-form at https://polyu.hk/kXXeh.
Zoom link will be provided to you nearer the event.