



A short course in

# Soil-structure Engineering of Deep Foundations, Excavations and Tunnels

Charles W. W. Ng

David Simeon & Bruce Phang

# A Short Course In Soil Structure Engineering Of Deep Foundations Excavations And Tunnels

**Harry G. Poulos**



## **A Short Course In Soil Structure Engineering Of Deep Foundations Excavations And Tunnels:**

A Short Course in Soil-Structure Engineering of Deep Foundations, Excavations and Tunnels Charles Ng, Noel Simons, Bruce Menzies, 2004-09-26 CD includes student editions of the OASYS software packages FREW and Safe

**Introduction to Tunnel Construction** David Chapman, Nicole Metje, Alfred Stärk, 2017-12-21 Tunnelling provides a robust solution to a variety of engineering challenges It is a complex process which requires a firm understanding of the ground conditions as well as structural issues This book covers the whole range of areas that you need to know in order to embark upon a career in tunnelling It also includes a number of case studies of real tunnel projects to demonstrate how the theory applies in practice The coverage includes Both hard rock and soft ground conditions Site investigation parameter selection and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Clear concise and heavily illustrated this is a vital text for final year undergraduate and MSc students and an invaluable starting point for young professionals Introduction to Tunnel Construction David N. Chapman, Nicole Metje, Alfred Stark, 2017-11-27

Tunnelling provides a robust solution to a variety of engineering challenges It is a complex process which requires a firm understanding of the ground conditions as well as the importance of ground structure interaction This book covers the full range of areas related to tunnel construction required to embark upon a career in tunnelling It also includes a number of case studies related to real tunnel projects to demonstrate how the theory applies in practice New features of this second edition include the introduction of a case study related to Crossrail s project in London focussing on the Whitechapel and Liverpool Street station tunnels and including considerations of building tunnels in a congested urban area and further information on recent developments in tunnel boring machines including further examples of all the different types of machine as well as multi mode machines The coverage includes Both hard rock and soft ground conditions Site investigation parameter selection and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various main tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Description of the latest tunnel boring machines Case studies with real examples including Crossrail s project in London Clear concise and heavily illustrated this is a vital text for final year undergraduate and MSc students and an invaluable starting point for young professionals and novices in tunnelling

**Tall Building Foundation Design** Harry G. Poulos, 2017-07-20 This book provides a comprehensive guide to the design of foundations for tall buildings After a general review of the characteristics of tall buildings various foundation options are discussed followed by the general principles of foundation design as applied to tall buildings Considerable attention is paid to the methods of assessment of the geotechnical design parameters as this is a critical component of the design process A detailed treatment is then given to foundation design for various conditions including ultimate stability serviceability ground movements dynamic loadings and seismic

loadings Basement wall design is also addressed The last part of the book deals with pile load testing and foundation performance measurement and finally the description of a number of case histories A feature of the book is the emphasis it places on the various stages of foundation design preliminary detailed and final and the presentation of a number of relevant methods of design associated with each stage *Aquananotechnology* David E. Reisner,T. Pradeep,2014-09-24 The world's fresh water supplies are dwindling rapidly even wastewater is now considered an asset By 2025 most of the world's population will be facing serious water stresses and shortages *Aquananotechnology* Global Prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation of contaminated water for drinking and industrial use It provides a comprehensive overview from a global perspective of the latest research and developments in the use of nanotechnology for water purification and desalination methods The book also covers approaches to remediation such as high surface area nanoscale media for adsorption of toxic species UV treatment of pathogens and regeneration of saturated media with applications in municipal water supplies produced water from fracking ballast water and more It also discusses membranes desalination sensing engineered polymers magnetic nanomaterials electrospun nanofibers photocatalysis endocrine disruptors and Al13 clusters It explores physics based phenomena such as subcritical water and cavitation induced sonoluminescence and fog harvesting With contributions from experts in developed and developing countries including those with severe contamination such as China India and Pakistan the book's content spans a wide range of the subject areas that fall under the aquananotechnology banner either squarely or tangentially The book strongly emphasizes sorption media with broad application to a myriad of contaminants both geogenic and anthropogenic keeping in mind that it is not enough for water to be potable it must also be palatable *Numerical Methods in Geotechnical Engineering* Thomas Benz,Steinar Nordal,2010-05-25 Numerical Methods in Geotechnical Engineering contains 153 scientific papers presented at the 7th European Conference on Numerical Methods in Geotechnical Engineering NUMGE 2010 held at Norwegian University of Science and Technology NTNU in Trondheim Norway 2 4 June 2010 The contributions cover topics from emerging research to engineering practice **Geotechnics for Transportation Infrastructure** Ravi Sundaram,Jagdish Telangrao Shahu,Vasant Havanagi,2019-05-30 This book presents selected papers from the International Symposium on Geotechnics for Transportation Infrastructure ISGTI 2018 The research papers cover geotechnical interventions for the diverse fields of policy formulation design implementation operation and management of the different modes of travel namely road air rail and waterways This book will be of interest to academic and industry researchers working in transportation geotechnics as also to practicing engineers policy makers and civil agencies Pile Design and Construction Practice Willis H. Thomas,2007-12-06 This international handbook is essential for geotechnical engineers and engineering geologists responsible for designing and constructing piled foundations It explains general principles and practice and details current types of pile piling equipment and methods It includes calculations of the

resistance of piles to compressive loads pile group      **Proceedings of the Institution of Civil Engineers** ,2004      *Pile Design and Construction Practice* Michael Tomlinson, John Woodward, 2014-10-08 Written to Eurocode 7 and the UK National Annex Updated to reflect the current usage of Eurocode 7 along with relevant parts of the British Standards *Pile Design and Construction Practice* Sixth Edition maintains the empirical correlations of the original combining practical know how with scientific knowledge and emphasizing relevant principles an

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