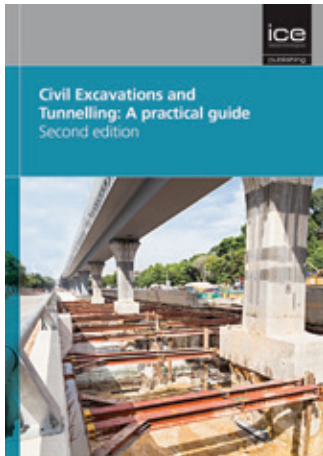


New titles in Geotechnical & Environmental Engineering



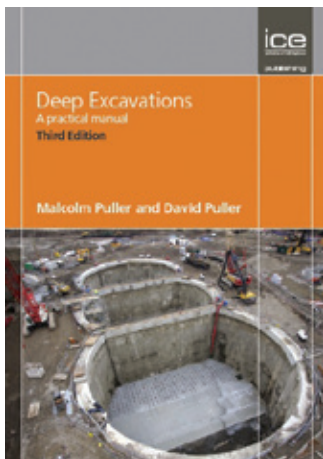
Civil Excavations and Tunnelling: A practical guide, 2nd edition

Ratan Tatiya

This wide-ranging book offers a comprehensive guide to civil excavations at surface and subsurface (underground) levels, including tunnels, and features descriptions of the latest methods, techniques and equipment, as well as guidance on safety and the environment.

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978-0-7277-6153-8 / 400pp / May 2017 / Hardbound / £65.00 / \$110.00



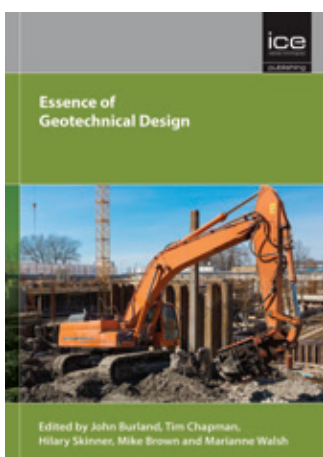
Deep Excavations, 3rd edition

Malcolm Puller and David Puller

Deep Excavations assembles the practical rules and details for the efficient and economical execution of deep excavations. The third edition uses international case examples, including the Nicoll Highway, Singapore and the Silken Hotel, London, alongside the experience of both design and construction from published work and practical experience to do this. Each chapter is fully updated to current practice, including the latest contractor safety measures, construction regulations (including manslaughter), and causes and avoidance of injury and fatality.

New material has been included: basic reasons behind deep excavations; typical design calculations for basement excavation support and for cofferdams; underpinning and ground freezing in design of soil support; risk of deep cofferdams in soft ground; CTRL cut and cover; and Well formulae.

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Essence of Geotechnical Design

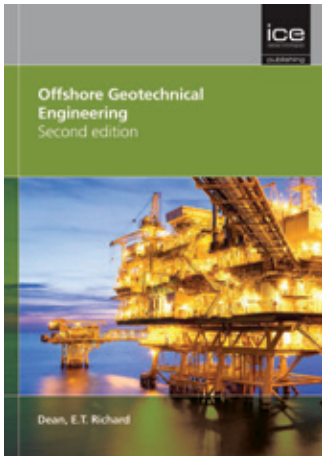
Edited by John Burland, Tim Chapman, Hilary Skinner, Mike Brown and Marianne Walsh

Essence of Geotechnical Design is intended to complement the *ICE Manual of Geotechnical Engineering* by offering idealised, real-life problems which will allow for the practical application of geotechnical theory. Each problem will guide the reader through the context and situation, geology and other site information, how to approach the elements of the problem, and notable features of the overall design and lessons learned.

This book bridges the gap between the analysis-based learning of university education and the design-based approach within industry, benefiting geotechnical engineers early in their career by offering practical examples of a range of realistic problem scenarios and the methods by which they can be approached and solved.

978-0-7277-6112-5 / 288pp / December 2017 / Paperbound / £65.00 / \$110.00

New titles in Geotechnical & Environmental Engineering



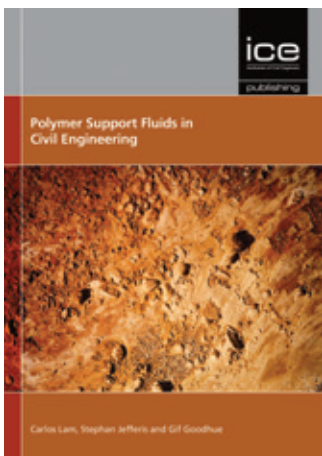
Offshore Geotechnical Engineering, 2nd edition

E.T. Richard Dean

The second edition covers all major aspects of the subject of offshore geotechnical engineering in depth, including offshore site investigation, surveys, soil mechanics, jackups, jacket platforms, gravity platforms, pipelines, artificial islands, wind turbine support structures and deepwater solutions. The author provides extensive practical guidance on the assessment of geohazards and sites-specific soil data, and on how this is applied to the design, installation, maintenance and eventual de-commissioning of offshore structures and their foundations.

This new edition will appeal to a broad spectrum of sectors – as a structured basic training for those entering the field, a comprehensive introductory text for students and lecturers, and a highly useful reference guide for those already working in offshore geotechnical engineering.

978-0-7277-6139-2 / 552pp / May 2018 / Hardbound / £70.00 / \$125.00



Polymer Support Fluids in Civil Engineering

Carlos Lam and Stephan A. Jefferis

Polymer Support Fluids in Civil Engineering provides the practising geotechnical/ foundation engineer with an introduction to fluid-supported excavation processes, a brief history of the use of polymers in excavation support with discussion of past successes—and importantly—reasons for failures. It includes a specification for the use of polymer fluids and all the information necessary to optimise the use of these materials and the performance of the resulting foundation elements.

This is a unique book and a vital resource for geotechnical engineers working for foundation contractors, consulting engineers, and clients, as well as project managers, project engineers and design engineers.

978-0-7277-5786-9 / 312pp / August 2017 / Hardbound / £120.00 / \$210.00



Disturbed Soil Properties and Geotechnical Design, 2nd edition

Andrew Noel Schofield and Stuart Haigh

This book describes the developments leading to the Original Cam Clay model, focusing on fundamentals of the shearing of soil. The aim is to lay the groundwork of understanding that should form the basis of geotechnical design, guiding engineers towards the class of behaviour to be expected under different combinations of effective stress and water content.

The first edition of this work covered the fallacies in the soil mechanics described by Coulomb and Terzaghi, and the way in which models such as Cam-Clay can be used to perform geotechnical design in a more rigorous way. The second edition will include further expanded areas, covering mobilisable strength design and the use of centrifuge modelling in geotechnical design.

978-0-7277-6155-2 / 208pp / August 2017 / Hardbound / £75.00 / \$128.00

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Matthews, Simons and Menzies

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Core Principles of Soil Mechanics (ICE Textbook series)

Sanjay Kumar Shukla

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ICE manual of geotechnical engineering

Burland, Chapman, Skinner and Brown (eds)

978-0-7277-3652-9 / 1570pp / 2012 / Hardbound / £254.00 / \$387.00



ICE Specification for Piling and Embedded Retaining Walls, 3rd edition

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