
Ciria Chalk Classification

Building Response to Tunnelling
British Upper Cretaceous Stratigraphy
Shaft Friction of CFA Piles in Chalk
Quarterly Journal of Engineering Geology and Hydrogeology
Proceedings
Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains
Engineering in Chalk
Handbook of Geotechnical Investigation and Design Tables
Proceedings of the 5th International Young Geotechnical Engineers' Conference
EC7 - Implications for UK Practice
Vegetation and Slopes
Pile Design and Construction Practice
Cone Penetration Testing
Logging the Chalk
Bearing Capacity of Roads, Railways and Airfields, Two Volume Set
ICE Manual of Geotechnical Engineering Volume 2
Intermediate Offshore Foundations
Soil and Rock Description in Engineering Practice
Piling, European Practice and Worldwide Trends
Engineering Geology of the Channel Tunnel
Proceedings of the Institution of Civil Engineers
Pile Design and Construction Practice
Coasts, Marine Structures and Breakwaters 2023
Coastal Chalk Cliff Instability
Tunnelling
Chalk
CIRIA Index of Technical Publications
Manual of Soil Laboratory Testing
The Chalk Aquifers of Northern Europe
The SUDS Manual
ICE Manual of Geotechnical Engineering Volume 1
Issues in Environmental Geology
Eurock 2006: Multiphysics Coupling and Long Term Behaviour in Rock Mechanics
Design of Axially Loaded Piles - European Practice
Tunnels & Tunnelling
Penetration Testing in the UK.
Geomorphology for Engineers
Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools

LISA MELENDEZ

Building Response to Tunnelling Springer

This guidance document is aimed at providing comprehensive advice on the implementation of SUDS in the UK. It provides information for all aspects of the life cycle of SUDS, from initial planning, design through to construction and their management in the context of the current regulatory framework.

British Upper Cretaceous Stratigraphy CRC Press

The ability to predict the potential damage to buildings accurately and to have confidence in the chosen protective measures is of increasing importance for the viability of urban tunnelling. The Jubilee Line Extension Project (JLEP) presented a unique opportunity to capture reliable field measurements of the effects of tunnelling on a wide range of buildings. Building response to tunnelling: Case studies from the Jubilee Line Extension, London is the result of this work. Volume 1 describes the relevant part of the JLEP, the methods of settlement prediction and building damage assessment used on the project, and the objectives of the research. Further chapters provide accounts of the geology and historical development of more of the case study buildings (between Green Park and Canada Water stations of the JLE route). Full transcriptions are included of the before-the-event and independent best practice predictions of surface and at-depth ground movements at two greenfield sites and the settlement of four buildings, which were made specially for the research. The concluding chapter of Volume 1, written by Professor John Burland, presents the overall findings of the research to date. Volume 2 presents, in their geographical sequence, the twenty-seven case studies; from Green Park in the west to London Bridge, and then eastward to Canada Water station. These case studies include two instrumented greenfield sites and several examples of prestigious buildings in London's west end that were protected by compensation grouting. The case studies present descriptions of the buildings, the works that affected them and measurements made to record their response. This valuable and informative two volume book has been written by the experts who participated in the research and is generously illustrated with numerous line drawings, graphs, pictures and maps. Building response to tunnelling: Case studies from the jubilee Line Extension, London will be essential reading to tunnelling and geotechnical engineers and all those who have an interest in this successful and interesting underground project.

Shaft Friction of CFA Piles in Chalk CRC Press

Collected from the International Conference on Coastal Rock Slope Instability: Geohazard and Risk Analysis in May 2001, these papers describe research relating to the growing hazard to communities from chalk cliff retreat on the southeast coast of England and the northwest coast of France. General topics of the papers include primary geological c

Quarterly Journal of Engineering Geology and Hydrogeology Thomas Telford Publishing

Geotechnical engineers are at work worldwide, contributing to sustainable living and to the creation

of safe, economic and pleasant spaces to live, work and relax. With increased pressure on space and resources, particularly in cities, their expertise becomes ever more important. This book presents the proceedings of the 5th iYGEC, International Young Geotechnical Engineers' Conference, held at Marne-la-Vallée, France, from 31 August to 1 September 2013. It is also the second volume in the series *Advances in Soil Mechanics and Geotechnical Engineering*. The papers included here cover topics such as laboratory and field testing, geology and groundwater, earthworks, soil behavior, constitutive modeling, ground improvement, earthquake, retaining structures, foundations, slope stability, tunnels and observational methods. The iYGEC conference series brings together students and young people at the start of their career in the geotechnical professions to share their experience, and this book will be of interest to all those whose work involves soil mechanics and geotechnical engineering. The cover shows Dieppe harbour breakwater project, Louis-Alexandre de Cessart, 1776-1777. © École Nationale des Ponts et Chaussées.

Proceedings Thomas Telford

ICE Manual of Geotechnical Engineering, Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions. Written and edited by leading specialists, each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field.

Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains CRC Press

Geomorphological landforms and processes exert a strong influence on surface engineering works, yet comparatively little information on geomorphology is available to engineers. Thoroughly revised and with an improved format, this book presents a broad view of geomorphology, examining near-surface engineering problems associated with various landscapes. Self-contained chapters contributed by leading authorities first address the major factors that control the materials, form, and processes on the Earth's surface. The second section deals with the geomorphological processes that help shape land surfaces and influence their engineering characteristics, and the final section explore environments and landscapes.

Engineering in Chalk CRC Press

Chalk has proved to be one of the more difficult rocks to core-log as it breaks up readily during the drilling process leading to core-loss and destructuring, particularly where flints, nodular chinks and/or fractures are present. This book is based on the standard lithostratigraphy and method of engineering description of Chalk developed over many years. This book will enable geologists to work from first principles to construct a lithostratigraphy and define weathering boundaries.

Handbook of Geotechnical Investigation and Design Tables IOS Press

This is a revised and updated edition of the highly successful first and second editions. In the intervening period the procedures used in the description of soils and rocks have continued to develop and evolve and this new edition incorporates changes in the international standards EN ISO 14688 and 14689 and those resulting in the national standard, BS 5930:2015 and the 2020 amendment thereof. Close comparison is also made with US practice in description (ASTM D2488)

and classification (ASTM D2487). Significant changes in rock description are included - the reintroduction of the Approaches 1 to 5 for rock weathering; Approach 1 for description and Approaches 2 to 5 (Rock Weathering Working Party) for classification when appropriate and helpful. Also covered is the reintroduction of the 12.5 MPa boundary and the term moderately weak in rock strength description: a significant boundary in design in rock. The book continues to provide invaluable practical guidance in carrying out engineering geological logging of soil and rock samples and exposures in the field. The systematic and codified approach is laid out in detail to ensure the defined descriptors are used in a consistent format, rendering mistakes less likely and the necessary communication from field to design more successful. The procedures, techniques and tips within this book continue to serve and guide young practitioners learning their craft, but also their seniors and mentors, including responsible experts who sign off the logs and report on behalf of their company. More than ever, the need to be aware of current practices in order to avoid costly mistakes is paramount.

Proceedings of the 5th International Young Geotechnical Engineers' Conference Thomas Telford Publishing

Bearing Capacity of Roads, Railways and Airfields focuses on issues pertaining to the bearing capacity of highway and airfield pavements and railroad track structures and provided a forum to promote efficient design, construction and maintenance of the transportation infrastructure. The collection of papers from the Eighth International Conference

EC7 - Implications for UK Practice Elsevier

Papers cover: the engineering stratigraphy and palaeogeography for the chalk of the Anglo-Paris basin; a survey of macro and micro-fracturing in Yorkshire chalk; studies in the influence of water in calcite; logging of chalk for engineering purposes; and much more.

Vegetation and Slopes Thomas Telford

This book provides guidance on engineering in chalk. It describes the chalk's geological setting, its origins, occurrence, its stratigraphy, weathering and geomorphological situations, the material and mechanical properties. The descriptions are supported by a comprehensive set of photographs. It explains recommended schemes for the engineering description and classification of chalk, building on the work presented in CIRIA PR11, 'Foundations in Chalk'. The publication looks at the mechanical and material properties of intact, in-situ and compacted chalk and considers their implications for the design and construction of earthworks, cuttings, retaining walls and anchorages. Major sections deal with the selection and design of shallow and piled foundations. Based on analysis of the results of pile testing, the book makes recommendations for the design and choice of bored, CFA, driven cast-in-place and pre-formed piles in chalk and for estimating shaft and base resistances. Contents: 1 Introduction, 2 The engineering geology of chalk, 3 Description and classification of chalk, 4 Mechanical properties of the chalk, 5 Chalk in embankments and fills, 6 Cuttings, retaining structures and anchorages in chalk, 7 Shallow foundations, 8 Piled foundations, 9 Site investigations in chalk, 10 Concluding remarks, References.

Pile Design and Construction Practice CRC Press

Intermediate foundations are used as anchors for floating platforms and ancillary structures, foundations for steel jackets, and to support seafloor equipment and offshore wind turbines. When

installed by suction, they are an economical alternative to piling, and also may be completely removed. They are usually circular in plan and are essentially rigid when laterally loaded. Length to diameter embedment ratios, L/D, generally vary between 0.5 and 10, spanning the gap between shallow and deep foundations, although these are indicative boundaries and the response, rather than the embedment ratio, defines an intermediate foundation. The first chapters introduce foundation types; compare shallow, intermediate and deep foundation models and design; define unique design issues that make intermediate foundations distinct from shallow and deep foundations, as well as list their hazards that mainly occur during installation. Later chapters cover installation, in-place resistance and in-place response, and miscellaneous design considerations. There is no general agreement as to which design methods/models are appropriate, so models should only be as accurate as the data. Therefore, several reasonably accurate models are provided together with comprehensive discussion and advice. Example calculations and over 200 references are also included. This is the first book dedicated to the geotechnical design of intermediate foundations, and it will appeal to professional engineers specialising in the offshore industry.

Cone Penetration Testing Geological Society of London

Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off

Logging the Chalk Thomas Telford Publishing

For a complex engineering discipline such as geotechnics, used to the piecemeal and evolutionary introduction of national codes and testing standards, the introduction of a different design philosophy for dealing with engineering uncertainty and the relatively rapid replacement of national documents represent major changes for the industry.

Bearing Capacity of Roads, Railways and Airfields, Two Volume Set CRC Press

The Engineering Group of the Geological Society Working Party brought together experts in glacial and periglacial geomorphology, Quaternary history, engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments. The Working Party addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership.

ICE Manual of Geotechnical Engineering Volume 2 Emerald Group Publishing

Contains the papers from an international conference on vegetation and slopes and clarifies the concepts and benefits of the use of vegetation on slopes. This book highlights practices which are of relevance to slope design and management.

Intermediate Offshore Foundations Emerald Group Publishing

These conference proceedings present the state of the art in the development of new materials,

revised specifications and improved testing methods. The first section comprises invited papers on highways, dams and specifications. The second section deals with theory and testing. The third section deals with specifications and materials and the fourth section covers case histories of dams, highways and foundations.

Soil and Rock Description in Engineering Practice CRC Press

ICE Manual of Geotechnical Engineering, Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions. Written and edited by leading specialists, each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field.

Piling, European Practice and Worldwide Trends Thomas Telford Publishing

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

Engineering Geology of the Channel Tunnel CRC Press

This interactive book presents comprehensive information on the fundamentals of landslide types and dynamics, while also providing a set of PPT, PDF, and text tools for education and capacity development. It is the second part of a two-volume work created as the core activity of the Sendai Partnerships, the International Consortium of Landslides. The book will be regularly updated and improved over the coming years, based on responses from users and lessons learned during its application.